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<b>(21) International Application Number:</b> PCT/IB00/00367 <b>(22) International Filing Date:</b> 22 February 2000 (22.02.00)  <b>(30) Priority Data:</b> 60/121,124 22 February 1999 (22.02.99) US  <b>(63) Related by Continuation (CON) or Continuation-in-Part (CIP) to Earlier Application</b> US 60/121,124 (CON) Filed on 22 February 1999 (22.02.99)  <b>(71)(72) Applicant and Inventor:</b> ORNTOFT, Torben, F. [DK/DK]; Dept. Clin. Biochem, Skejby Sygehus, DK-8200 Aarhus N (DK).  <b>(74) Agent:</b> JANSSEN, Bernd; Uexküll & Stolberg, Beselerstrasse 4, D-22607 Hamburg (DE).		<b>(81) Designated States:</b> AE, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CR, CU, CZ, DE, DK, DM, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW, ARIPO patent (GH, GM; KE, LS, MW, SD, SL, SZ, TZ, UG, ZW), Eurasian patent (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European patent (AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE), OAPI patent (BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG).  <b>Published</b> <i>Without international search report and to be republished upon receipt of that report.</i>
<b>(54) Title:</b> GENE EXPRESSION IN BLADDER TUMORS		
<b>(57) Abstract</b>  Methods for analyzing tumor cells, particularly bladder tumor cells employ gene expression analysis of samples. Gene expression patterns are formed and compared to reference patterns. Alternatively gene expression patterns are manipulated to exclude genes which are expressed in contaminating cell populations. Another alternative employs subtraction of the expression of genes which are expressed in contaminating cell types. These methods provide improved accuracy as well as alternative basis for analysis from diagnostic an prognostic tools currently available.		

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## GENE EXPRESSION IN BLADDER TUMORS

This application claims the benefit of U.S. Provisional Application No. 60/121,124, filed February 22, 1999, which is hereby incorporated by reference in its entirety.

### 5     **TECHNICAL FIELD OF THE INVENTION**

This invention is related to the field of cancer diagnosis and treatment. In particular it is related to the use of gene expression to categorize and detect tumors.

### **BACKGROUND OF THE INVENTION**

10       The building of large databases containing human genome sequences is the basis for studies of gene expressions in various tissues during normal physiological and pathologic conditions. Constantly (constitutively) expressed sequences as well as sequences whose expression is altered during disease processes are important for our understanding of cellular properties, and for  
15       the identification of candidate genes for future therapeutic intervention. As the number of known genes and ESTs build up in the databases, array-based simultaneous screening of thousands of genes is necessary to obtain a profile of transcriptional behaviour, and to identify key genes that, either alone or in combination with other genes, control various aspects of cellular life. One

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Still another object of the invention is to provide a method of identifying a tissue sample as urothelial.

Yet another object of the invention provides a method of determining an expression pattern of a bladder tissue sample independent of the proportion of submucosal, muscle, and connective tissue cells present.

These and other objects of the invention are achieved by providing one or more of the embodiments described below. In one embodiment a method is provided of determining an expression pattern of a cell sample independent of the proportion of submucosal, smooth muscle, or connective tissue cells present. Expression is determined of one or more genes in a sample comprising cells. The one or more genes exclude genes which are expressed in the submucosal, muscle, and connective tissue. A pattern of expression is formed for the sample which is independent of the proportion of submucosal, muscle, and connective tissue cells in the sample.

In another aspect of the invention a method of determining an expression pattern of a cell sample is provided. Expression is determined of one or more genes in a sample comprising cells. A first pattern of expression is thereby formed for the sample. Genes which are expressed in submucosal, smooth muscle, or connective tissue cells are removed from the first pattern of expression, forming a second pattern of expression which is independent of the proportion of submucosal, smooth muscle, or connective tissue cells in the sample.

Another embodiment of the invention provides a method for determining an expression pattern of a urothelium or bladder cancer cell. Expression is determined of one or more genes in a sample comprising urothelium or bladder cancer cells; the expression determined forms a first pattern of expression. A second pattern of expression which was formed using the one or more genes and a sample comprising predominantly submucosal, smooth muscle, or connective tissue cells, is subtracted from the first pattern of expression, forming a third pattern of expression. The third pattern of expression reflects expression of the urothelium or bladder cancer cells

independent of the proportion of submucosal, smooth muscle, or connective tissue cells present in the sample.

5 In another embodiment of the invention a method is provided of detecting an invasive tumor in a patient. A marker is detected in a sample of a body fluid. The body fluid is selected from the group consisting of blood, plasma, serum, urine, ascites fluid, pleural fluid, spinal fluid, sputum, and mucous secretions. The marker is an mRNA or protein expression product of a gene which is more prevalent in submucosal, smooth muscle, or connective tissue than in the body fluid. An increased amount of the marker in the body  
10 fluid indicates a tumor which has become invasive in the patient.

In another aspect of the invention a method is provided for diagnosing a bladder cancer. A first pattern of expression is determined of one or more genes in a bladder tissue sample suspected of being neoplastic. The first pattern of expression is compared to a second and third reference pattern of  
15 expression. The second pattern is of the one or more genes in normal urothelium and the third pattern is of the one or more genes in bladder cancer. A first pattern of expression which is found to be more similar to the third pattern than the second indicates neoplasia of the bladder tissue sample.

According to yet another aspect of the invention a method is provided  
20 for predicting outcome or prescribing treatment of a bladder tumor. A first pattern of expression is determined of one or more genes in a bladder tumor sample. The first pattern is compared to one or more reference patterns of expression determined for bladder tumors at a grade between I and IV. The reference pattern which shares maximum similarity with the first pattern is  
25 identified. The outcome or treatment appropriate for the grade of tumor of the reference pattern with the maximum similarity is assigned to the bladder tumor sample.

In another embodiment of the invention a method is provided for determining grade of a bladder tumor. A first pattern of expression is  
30 determined of one or more genes in a bladder tumor sample. The first pattern is compared to one or more reference patterns of expression determined for

bladder tumors at a grade between I and IV. The reference pattern which shares maximum similarity with the first pattern is identified. The grade of the reference pattern with the maximum similarity is assigned to the bladder tumor sample.

5 Yet another embodiment of the invention provides a method to determine stage of a bladder tumor. A first pattern of expression is determined of one or more genes in a bladder tumor sample. The first pattern is compared to one or more reference patterns of expression determined for bladder tumors at different stages. The reference pattern which shares  
10 maximum similarity with the first pattern is identified. The stage of the reference pattern with the maximum similarity is assigned to the bladder tumor sample.

In still another embodiment of the invention a method is provided for identifying a tissue sample as urothelial. A first pattern of expression is  
15 determined of one or more genes in a tissue sample. The first pattern of expression is compared to a second pattern of expression obtained from normal urothelial cells. Similarity between the first and second patterns identifies the tissue sample is urothelial in its origin.

Another aspect of the invention is a method to identify a set of genes  
20 useful for diagnosing, predicting outcome, or prescribing treatment of a bladder cancer. A first pattern of expression is determined of one or more genes in a first bladder tissue sample. A second pattern of expression is determined of the one or more genes in a second bladder tissue sample. The first bladder tissue sample is a normal urothelium sample or an earlier stage or lower grade of  
25 bladder tumor than the second bladder tissue sample. The first pattern of expression is compared to the second pattern of expression to identify a first set of genes whose expression is increased or decreased in the second bladder tissue sample relative to the first bladder tissue sample. Those genes which are expressed in submucosal, smooth muscle or connective tissue are removed  
30 from the first set of genes to produce a second set of genes. Expression of the

second set of genes can be used for diagnosing, predicting outcome, or prescribing treatment of a bladder cancer.

According to yet another aspect of the invention a method is provided for determining an expression pattern of a bladder tissue sample independent of the proportion of submucosal, smooth muscle, or connective tissue cells present. A single-cell suspension of disaggregated bladder tumor cells is isolated from a bladder tissue sample comprising bladder cells, submucosal cells, smooth muscle cells, or connective tissue cells. The expression of one or more genes in the single-cell suspension is determined. A pattern of expression is thus formed for the sample which is independent of the proportion of submucosal, smooth muscle, or connective tissue cells in the bladder tissue sample.

According to still another aspect of the invention a method is provided for screening compounds to identify candidate therapeutic agents for treating bladder cancer. Bladder tumor cells are contacted with a test compound. Gene expression of one or more genes is determined in the bladder tumor cells which have been contacted with the test compound. The one or more genes are ones whose expression changes during the development of a bladder cancer. A test compound is identified as a candidate therapeutic agent if it causes gene expression of at least one of the one or more genes to change to a level which is characteristic of an earlier stage of cancer progression.

The present invention thus provides the art with numerous methods for molecularly assessing bladder cells. The methods aid the art in diagnosing, identifying, classifying, treating, detecting, and treating tumors of the bladder.

#### **BRIEF DESCRIPTION OF THE DRAWINGS AND TABLES**

Figure 1 shows a distribution of expression levels in bladder wall tissue expressed in arbitrary units. Only genes scored as present or marginally present are shown.

Figure 2 shows a comparison of intensity differences between a tumor and a pool of tumors of the same stage and grade, and two pools of different

stages and grades. The difference is larger between the pools, demonstrating the validity of using expression patterns to determine stage, grade, prognosis, and treatment regimen.

5 All genes scored as present on two chips (approximately 9000 genes) were compared. Increased genes were compared to increased genes and decreased genes to decreased genes, on two separate chips, followed by plotting of the numerical difference of the medians. A TaGrII tumor compared to the TaGrII pool, and the TaGrII pool to T2GrIV pool (1, 2, 3, 4); T2GrIII to T2GrIII pool, and T2GrIII pool to T2GrIV pool (5, 6, 7, 8); T2GrIV to  
10 T2GrIV pool, and T2GrIV pool to TaGrII pool (9, 10, 11, 12). Paired T-test of medians showed a borderline significant difference, with pool vs. pool scoring highest (P-value of 0.07).

Figure 3 shows progression of a bladder cancer from normal urothelium to invasive grade IV tumor. The expression patterns change during the  
15 progression, with a great variation in pattern from stage to stage, but also within a stage and even within tumors having the same stage and grade of atypia.

Figure 4 shows the correlation between transcript levels from genes expressed in at least one sample. Fig. 4A demonstrates the repeatability of  
20 microarray expression analysis. Duplicate determinations on a normal sample are compared. Fig. 4B is a plot of a pTa tumor vs. the normal pool. Fig. 4C is a plot of an invasive pT2 tumor versus the normal pool. The vast majority of transcripts are present at similar levels in both normal and tumor tissue.

Figure 5 shows dendrograms of tissues based on different clustering  
25 methods. Clustering was either based on log-fold change in expression level of genes (Figs. 5A, 5C), or the absolute difference (Figs. 5B, 5D), comparing tumor to a pool of normal samples. Genes used for clustering were either those 10% of the genes that covaried best with progression (A, B), or all 4076 genes that were scored as present in at least one sample (C, D).

30 Figure 6A through 6F show how the pattern of expression changes during progression of bladder cancer based on levels of transcripts in pools of

normal biopsies, superficial pTa tumors grade II, and invasive pT2+grade IV tumors. The curve at the top left portion of each subfigure shows the direction of change in gene expression based on pools of normal urothelium (open circle), superficial pTa tumor (gray circle) and invasive pT2+ tumor (black circle). Fold change in gene expression level was calculated on a probe-to-probe basis using 20 probes per gene and eliminating the highest and lowest outliers (olympic scoring). It is noteworthy that reduced expression is the most common event.

Figure 7 shows a cluster diagram of 9 bladder tumors representing the progression of bladder cancer. Each column represents a tumor preparation, and each row a gene. The diagrams show clustering based on log-fold change from normal urothelium (left diagram) and based on absolute difference from normal urothelium (right diagram). A decreased expression is displayed as shades of cyan, an increased expression as shades of yellow, and no change as black.

The dendrograms at each side show the relation between the different genes. In the middle, distinct functional clusters are identified and members of the clusters are annotated in brief (for full length ID of all genes in the diagram and Genbank numbers see [www.mdl.dk/supplementary](http://www.mdl.dk/supplementary) data). In an effort to identify those genes most indicative of cancer progression a weighting scheme was used to select the 400 genes that covaried best with the different stages of bladder cancer. Gene clustering was based on normalized Euclidean distance (vector angle) calculated between genes or gene cluster centers.

Figure 8 shows the vector angle between pools and individual single cell preparations or biopsies. The numbers refer to patient samples and the stage of each is indicated. Pools are identified as follows: squares, Ta grade I pool; diamonds, Ta grade II pool; circles, T2-4 grade III pool; triangles, T2-4 grade IV pool. The lowest angle for each sample determines the whether the sample is classified as a superficial (Ta or T1) or muscle-invasive tumor (T1-T4).

Figure 9 shows a comparison of Northern blots and oligonucleotide arrays. The samples analyzed were normal pool (Norm), superficial pTaGrI tumor (335), minimally invasive pT1 grade III (901), and invasive pT2 grade III (713). The Northern blots were scanned by densitometry and plotted (solid lines) together with a plot of the level detected on the arrays (dotted lines). The levels of expression ranged from 3-6,000 units (beta -2 microglobulin) to 100-600 units (E-cadherin). The level of transcripts detected was similar with both methods.

Figure 10 shows immunohistochemical staining of the tissue sections used for expression analysis. On each section the protein examined is indicated and the level measured on the oligonucleotide array. Arrows indicate stained urothelial cells in cathepsin E (297 arbitrary units), ApoE (389 units), and CD59 (260 units) stainings, and stained stromal cells or leukocytes in beta2-microglobulin (2481 units) and cystatin C (941 units).

Figure 11 presents a model of gene expression events during the progression of bladder cancer. The top of the figure shows the stages of bladder cancer, and the lower part shows the sequence of transcriptional events. The color cyan identifies reduced expression, yellow increased expression (also indicated by arrows). The figure is based on data from cluster analysis, and combines the different cluster methods.

Table 1 shows genes which were highly expressed in bladder wall. Expression is shown in "connective tissue" which includes muscle and submucosal cells, a TaGr III, a T<sub>2</sub>Gr III, and a T<sub>2</sub>Gr IV bladder tumor. Genes above the 90<sup>th</sup> percentile are grouped according to the purported function of the protein.

Table 2A shows high intensity genes in bladder wall compared to single cell solutions and biopsies of tumors.

Table 2B shows expression of genes related to bladder wall.

Table 3 shows the number of genes that are expressed as in the tumor-pool to which the tumor belongs, or altered as in a tumor pool of higher or lower stage or grade.

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Several of the tables described above contain lists which include both genes and expressed sequence tags (ESTs). Reference to the "genes" of a table shall be understood to include the gene containing the EST.

#### **DETAILED DESCRIPTION OF THE INVENTION**

5           It is a discovery of the present inventor that characteristic patterns of expression of genes can be used to characterize different types of tissue. Thus, for example, gene expression patterns can be used to characterize stages and grades of bladder tumors. Similarly, gene expression patterns can be used to distinguish cells having a bladder origin from other cells. Moreover, gene  
10       expression of cells which routinely contaminate bladder tumor biopsies has been identified, and such gene expression can be removed or subtracted from patterns obtained from bladder biopsies. Further, the gene expression patterns of single-cell solutions of bladder tumor cells have been found to be far freer of interfering expression of contaminating muscle, submucosal, and connective  
15       tissue cells than biopsy samples.

          Working with human tumor material requires biopsies, and working with RNA requires freshly frozen or immediately processed biopsies. Biopsies inevitably contain many different cell types in addition to cancer cells, such as cells present in blood, connective and muscle tissue, endothelium etc. In the  
20       case of DNA studies, microdissection or laser capture are methods of choice, however, the time-dependent degradation of RNA makes it difficult to perform manipulation of the tissue for more than a few minutes. Furthermore, studies of expressed sequences may be difficult on the few cells obtained via microdissection or laser capture, as these may have an expression pattern that  
25       deviates from the predominant pattern in a tumor due to intratumoral heterogeneity.

          High-density expression arrays were used to evaluate the impact of bladder wall components in bladder tumor biopsies, and tested preparation of single cell solutions as a means of eliminating the contaminants. The results of  
30       these evaluations permitted the design of methods of evaluating bladder

samples without the interfering background noise caused by ubiquitous contaminating submucosal, muscle, and connective tissue cells.

The evaluating assays of the invention may be of any type. While high-density expression arrays can be used, other techniques are also contemplated.

5 These include other techniques for assaying for specific mRNA species, including RT-PCR and Northern Blotting, as well as techniques for assaying for particular protein products, such as ELISA, Western Blotting, and enzyme assays. Gene expression patterns according to the present invention are determined by measuring a gene product of a particular gene, including mRNA  
10 and protein. A pattern may be for one or more genes.

Using the results provided in the accompanying figures and tables, a gene is indicated as being expressed if an intensity value of greater than or equal to 21 is shown. Conversely, an intensity value of less than 21 indicates that the gene is not expressed above background levels. Comparison of an  
15 expression pattern to another may score a change from expressed to non-expressed, or the reverse. Alternatively, changes in intensity of expression may be scored, either increases or decreases. Any statistically significant change can be used. Typically changes which are greater than 2-fold are suitable. Changes which are greater than 3-fold or 5-fold are highly significant.

20 A pattern of characteristic expression of just one gene can be useful in characterizing a cell type source or a stage of disease. However, more genes may be usefully analyzed. Useful patterns include expression of at least one, two, three, five, ten, fifteen, twenty, twenty-five, fifty, seventy-five, or one hundred informative genes. As used herein, the phrase "stage-specific  
25 reference pattern" refers to a pattern of gene expression characteristic of a given stage of progression in a bladder tumor. A stage-specific reference pattern can include one or more genes listed in Table 4 and/or one or more genes listed in Table 8 and/or one or more genes listed in Table 9 and/or one or more genes listed in Fig. 6.

30 RNA or protein can be isolated and assayed from a test sample using any techniques known in the art. They can, for example, be isolated from fresh

or frozen biopsy, from formalin-fixed tissue, from body fluids, such as blood, plasma, serum, urine, or sputum.

5           Stage of a bladder tumor indicates how deeply the tumor has penetrated. Superficial tumors are termed Ta, and T<sub>1-4</sub> are used to describe increasing degrees of penetration into the muscle. The grade of a bladder tumor is expressed on a scale of I-IV (1-4). The grade reflects the cytological appearance of the cells. Grade I cells are almost normal. Grade II cells are slightly deviant. Grade III cells are clearly abnormal. And Grade IV cells are highly abnormal.

10           As used herein, the reference to genes which are expressed in "submucosal, smooth muscle, or connective tissue" or patterns of expression in "other cell types" can include the expression of one or more of the genes listed in Table 1 and/or one or more of the genes listed in Table 6. The term "connective tissue cell" includes any stromal cell such as fibroblasts,  
15           macrophages, mast cells, granulocytes, etc. The data provided herein of expression for submucosal, smooth muscle, and connective tissue can be used in at least three ways to improve the quality of data for a tested sample. The genes identified in the data as expressed can be excluded from the testing altogether or tested but eliminated from the analysis. Alternatively, the  
20           intensity of expression of the genes expressed in the submucosal, smooth muscle, and/or connective tissue can be subtracted from the intensity of expression determined for the test tissue.

          Patterns can be compared manually (by a person) or by a computer or other machine. An algorithm can be used to detect similarities and differences.  
25           The algorithm may score and compare, for example, the genes which are expressed and the genes which are not expressed. Alternatively, the algorithm may look for changes in intensity of expression of a particular gene and score changes in intensity between two samples. A variety of such algorithms are known in the art. Similarities may be determined on the basis of genes which  
30           are expressed in both samples and genes which are not expressed in both samples or on the basis of genes whose intensity of expression are numerically

similar. Differences are considered significant when they are greater than 2-fold, 3-fold or 5-fold from the base value. Alternatively, a mathematical approach can be used to conclude whether differences in the gene expression exhibited by different samples is significant (*see, e.g.*, Golub et al., Science 286, 531 (1999)). One approach to determine whether a sample is more similar to or has maximum similarity with a given condition (*e.g.*, a particular grade or stage of tumor progression) is to compare the Euclidean distances (see Golub et al. and Example 6) between the sample and one or more pools representing different conditions for comparison; the pool with the smallest vector angle is then chosen as the most similar to the test sample among the pools compared.

The data collected and disclosed here as "connective tissue" is presumed to contain both smooth muscle and submucosal gene expression as well. Thus it represents the composite expression of those cell types which can typically contaminate a bladder tumor biopsy.

Genes identified as changing in various stages or grades of bladder cancer can be used as markers for drug screening. Thus by treating bladder cancer cells with test compounds or extracts, and monitoring the expression of genes identified as changing in the progression of bladder cancers, one can identify compounds or extracts which change expression of genes to a pattern which is of an earlier stage/grade or even of normal urothelium. As used herein, the reference to expression of genes in "normal urothelium" or "normal urothelial cells" can include one or more genes listed in Table 7.

As demonstrated below, pools of tumors of a similar stage or grade, particularly bladder tumors, can be made and the expression of the pool evaluated. The expression data of the pool can be used to define a stage or grade of tumor. The use of the pool minimizes the variations found from individual tumor to individual tumor of the same grade or stage. The expression data of the pool can then be used as a comparator to which individual tumor samples are compared, in an effort to categorize, prognosticate, and prescribe the tumor samples. The methods described herein for classifying the stage or grade of a tumor can be combined with sequence

analysis of genes whose expression is altered compared to normal tissue in the individual patient. In particular, mutations in key genes such as tumor suppressor genes can help to refine the application of the gene expression results to diagnosis and prognosis.

5           As used herein, the reference to expression of "genes in bladder cancer" or "genes in a bladder tumor" can include one or more genes listed in Table 4 and/or one or more of the genes listed in Table 8 and/or one or more genes listed in Table 9.

10           The above disclosure generally describes the present invention. A more complete understanding can be obtained by reference to the following specific examples which are provided herein for purposes of illustration only, and are not intended to limit the scope of the invention.

#### EXAMPLE 1

##### *Quantification of gene expression using microarrays*

##### 15   Material

Bladder tumor biopsies were sampled from patients after informed consent was obtained, and after removal of the necessary amount of tissue for routine pathological examination. Tumors examined were 335 (stage pTa grade I), 837 (pTa GrII), 901 (pTa GrIII), 320 (pT1 GrIII), 713 (pT2 GrIII).  
20   RNA from six different tumors of the same stage and grade was combined to form each pool. Four such pools were prepared (pTa GrI pool, pTa GrII pool, pT2+ GrIII pool, and pT2+ GrIV pool). Normal bladder mucosa biopsies from 36 patients with prostatic hyperplasia or incontinence were pooled (as RNA) to obtain a normal urothelial reference. Single cell solutions were made by  
25   disintegrating biopsies on ice with a scalpel and a syringe followed by filtering through a 50 micron filter.

##### Preparation of mRNA

Total RNA was isolated using the RNeasy RNeasy RNA isolation method (WAK-Chemie Medical GMBH). Poly (A)+ RNA was isolated by an oligo-dT  
30   selection step (Oligotex mRNA kit from Qiagen).

### Preparation of cRNA

One µg mRNA was used as starting material for the cDNA preparation. The first and second strand cDNA synthesis was performed using the SuperScript Choice System (Life Technologies) according to the manufacturer's instructions, except that an oligo-dT primer containing a T7 RNA polymerase promoter site was used. Labeled cRNA was prepared using the MEGAscrip In Vitro Transcription kit (Ambion). Biotin labeled CTP and UTP (Enzo) was used in the reaction together with unlabeled NTP's. Following the IVT reaction, the unincorporated nucleotides were removed using RNeasy columns (Qiagen).

### Array hybridization and scanning

Ten µg of cRNA was fragmented at 94°C for 35 min. in a fragmentation buffer containing 40mM Tris-acetate pH 8.1, 100mM KOAc, 30 mM MgOAc. Prior to hybridization, the fragmented cRNA in a 6xSSPE-T hybridization buffer (1M NaCl, 10mM Tris pH 7.6, 0.005% Triton) was heated to 95°C for 5 min and subsequently to 40°C for 5 min before loading onto an Affymetrix probe array cartridge (HuGeneF1 set array, part No. V900160). The probe array was then incubated for 16 h at 40°C at constant rotation (60 rpm). The washing and staining procedure was performed in the Affymetrix Fluidics Station. The probe array was exposed to 10 washes in 6xSSPE-T at 25°C followed by 4 washes in 0.5xSSPE-T at 50°C. The biotinylated cRNA was stained with a streptavidin-phycoerythrin conjugate, 10 µg/ml (Molecular Probes, Eugene, OR) in 6xSSPE-T for 30 min at 25°C followed by 10 washes in 6xSSPE-T at 25°C. The probe arrays were scanned at 560 nm using a confocal laser scanning microscope with an argon ion laser as the excitation source (made for Affymetrix by Molecular Dynamics). The readings from the quantitative scanning were analyzed by the Affymetrix Gene Expression Analysis Software.

### Normalization of data

To compare samples, normalization of the data was necessary. For that purpose we compared scaling to total GAPDH intensity (sum of 3', middle,

5' probe sets) of 7000 units with scaling to a total chip intensity (global scaling) of 281850 units (averaging 150 units per probe set). Both gave similar results with scaling factors that differed less than ten percent in a set of experiments. Based on this we chose the global scaling for all experiments. The variation in hybridization intensity following global scaling in biopsies from the bladder wall is shown in Fig.1.

## EXAMPLE 2

### *Interference of bladder wall components on expression profiling of bladder tumor biopsies*

10           Biopsies contain epithelial cells that most often are the targets for the studies (e.g., in the identification and characterization of carcinoma cells), and in addition many other cells that contaminate the epithelial cell fraction to a varying extent. The contaminants include histiocytes, endothelial cells, leukocytes, nerve cells, muscle cells etc. Microdissection is the method of choice for DNA examination, but in case of expression studies this procedure is difficult due to RNA degradation during the procedure. Our approach has been to gently remove the epithelium and monitor the expression in the remaining submucosa and underlying connective tissue (the bladder wall). Genes expressed at high or low levels in the bladder wall should be  
15           interrogated when performing expression monitoring of the urothelium and urothelial tumors. A similar approach could be used for studies of epithelia in other organs.

          We gently scraped off some of the normal urothelium lining the bladder lumen from bladders removed at cystectomy for bladder cancer. Then biopsies  
25           were taken from the denuded submucosa and connective tissue, reaching approximately 5 mm into the bladder wall, and immediately disintegrated in guanidinium isothiocyanate. Total RNA was extracted from four different cystectomy specimens, pooled, and poly(A)<sup>+</sup> mRNA was prepared from the pool followed by conversion to double-stranded cDNA and in vitro  
30           transcription into cRNA containing biotin-labeled CTP and UTP.

The labeled sample was hybridized to a set of 4 arrays containing 7074 probe sets for human genes. A total of 1491 of the examined genes (21.1%) were scored as present, and 120 (1.7%) as present but rare. The percentile distribution of the expression intensity was (90%, 1308; 75%, 383; 50%, 163; 25%, 85; 10%, 47). Genes above the 90<sup>th</sup> percentile (Table 1) were grouped according to the purported function of the protein (Table 1, first column). Many of the highly expressed genes belong to a group of genes that encode proteins involved in transcription and translation, probably reflecting that these genes generally are highly expressed in the various cell types present in the bladder wall, and corresponding to recent data on yeast. Structural proteins such as keratins and proline rich proteins are highly expressed whereas collagen genes are only medium expressed. Extremely high expression is shown by the cystic fibrosis antigen gene, the S100 calcium binding protein, the cystatin B and the cytokeratin 13 genes that are all above 10,000 units.

To evaluate the influence of bladder wall tissue in urothelial tumor biopsies, we monitored the expression level in 3 biopsies from transitional cell carcinomas (one superficially invasive (#733-2) and two muscle invasive (#733-1 and #879-1). The expression intensity in the tumor biopsies of genes that are highly expressed in bladder wall are listed in Table 1. Many genes are expressed to the same magnitude in the tumor biopsies as in bladder wall, 82 genes (5%) were present at a level above 1308 in all samples, and above the 75% percentile of the bladder wall sample intensity (383 units) 210 genes were expressed in all three biopsies as well as in bladder wall. Genes that were not expressed in bladder wall but present in the urothelial biopsies amounted to 196.

Genes that are expressed and genes that are not expressed in bladder wall can both interfere with the interpretation of the expression in a biopsy, and should be interrogated when interpreting expression intensities in urothelial tumor biopsies, as the bladder wall component of a biopsy varies in amount from biopsy to biopsy.



It is remarkable how similarly many genes belonging to the groups encoding metabolically active proteins, transcription and translation related proteins, mitochondrial and nucleoproteins, are expressed in the different samples (Table 1). It seems reasonable to expect that it is incompatible with cellular function to stray from a narrow interval regarding these genes. Although some of the examined cells are malignant of atypia grade IV, which is a severe morphological deviation from normal, the key cellular functions are obviously still under strict control.

Twenty six genes were expressed at an intensity above 1308 in bladder wall and more than five times lower in tumor biopsies. These genes, marked with bold (Table 1), include keratins (7 genes) encoding proteins like keratins type II, 4, and 6. Another prominent group are the genes encoding proline-rich proteins (5 genes). These gene expressions can be used to monitor the amount of bladder wall present in a given biopsy of tumors. The tumor biopsy 879-1 obviously has a larger bladder wall component than the other biopsies, as it contains keratin 13 and several other highly expressed bladder wall mRNAs at a low level, but higher than the other specimens (Table 1).

An interesting result was the S100 calcium binding protein A7 gene transcript that was highly expressed in bladder wall and totally absent from the other biopsies (also absent from a number of other examined tumor biopsies from bladder). As all samples were collected with the same procedures, it indicates that this expression is either individual and occurred by chance in the patients from whom we removed the bladder wall biopsies, or, more likely, that the presence of urothelial RNAases degrade this transcript very fast.

Bladder tumors have a reduced intercellular cohesion, and easily disintegrate into single cell solutions. To eliminate bladder wall cells from the urothelial tumor cells, five tumors were disintegrated into single cell solutions before extraction of RNA, and compared to three tumors where RNA was extracted from the biopsy directly. We expected that this disintegration procedure might lead to an enrichment of tumor cells and loss of connective tissue cells. Examination of genes highly expressed in bladder wall (Table 2A),

showed a similar expression in single cell solutions of bladder tumor cells compared to biopsies. However, the level was much lower than seen in the bladder wall and raised the question whether the expressed RNAs originate from the bladder wall or from the urothelial cells.

5           To answer this question we examined the expression of genes expected to be present in bladder wall (Table 2B). Some of these genes were expressed in the bladder tumor samples, and probably indicate the presence of bladder wall components in these. It was striking that the single cell solutions contained much lower expression levels of these genes compared to the biopsies  
10           ( $p < 0.004$ ). Although the number of examined tumors was small this indicates that preparation of single cell solutions may reduce the presence of bladder wall cells in the samples. The absence of keratin 8 in the bladder wall sample demonstrated that this sample was devoid of urothelial cells (Table 2B).

          The genes known to be related to the bladder wall components, showed  
15           a variable level throughout the samples. Some genes like myosin light chain 2 gene, fibroblast tropomyosin gene and alpha-1 collagen type IV gene, were generally more expressed in the tumor samples than the other genes (Table 2B). We hypothesize that this may reflect that there is a differential expression of genes in the connective tissue component that inevitably is included in a  
20           tumor biopsy, an expression that may deviate from the one found in the bladder wall further away from the tumor. An example of this differential expression in bladder wall was the presence of transcript from the myosin light chain gene in the tumor samples but not in the bladder wall biopsies (Table 2B).

          In tumors many important events take place in the non-epithelial  
25           compartment. Tumors need a connective tissue support, they need blood vessels, they interact with the immune system and have intercellular signaling with various sorts of other cells in a complicated way that has not yet been clarified in detail. Gene expression originating from the non-epithelial compartment contributes to the expression profile of a tumor, and might be of  
30           great importance in relation to the clinical outcome and therapeutic response of the tumor.

### EXAMPLE 3

#### *Expression profiling of tumor pools to assess individual tumor heterogeneity.*

We expected tumors from the same pathology stage and grade to have a more similar gene expression than tumors from different stages and grades. This was the case; however, these differences were not striking, and there were exceptions. Based on this we hypothesized that, a given tumor scored by a pathologist at light microscopy to be similar to another one may actually represent tumors with a remarkably different gene expression. The reason for this could be that tumors do not progress from a well defined stage to another well defined stage, but rather that a continuous change is taking place at the expression level -- which is then only partly reflected by morphology.

We tested this hypothesis by examining the expression which differed between a pool of tumors from a given stage and a single tumor, to see whether the differentially expressed genes were linked to a certain stage or whether they were a random deviation. It was evident that tumor expression that deviates from the pool systematically have expressions belonging to either a lower or a higher stage, or both, or unique expressions not seen in the pool (Fig. 3). The low stage Ta tumor had 43 genes whose expressions were increased or decreased similar to the ones seen in a Stage 2 grade IV tumor pool, and only three expressions that were altered in the opposite direction of stage 2 grade IV. The stage 2 grade IV tumor had 33 genes whose expression was either increased or decreased similar to the ones seen in the Ta superficial tumor pool, and only 8 genes altered in the opposite direction. In the T2 grade III tumor, gene expressions that were increased or decreased similar to the superficial or the grade IV invasive pool could be found. Furthermore some gene expressions were only low in this grade III tumor, and higher in both superficial and grade IV tumor pools. The clinical information on the examined single tumors (Table 3) paralleled the expression findings as the intermediate grade III tumor was the first muscle invasive tumor in a patient who had had a superficial tumor five months earlier. It seems that this tumor has not reached the level of malignancy as seen in the other invasive tumor. The latter was of

grade IV, and was a big solid tumor with muscle invasion at first visit. The superficial Ta tumor was the fifth recurrence and was followed by two new recurrences 64 and 159 days later--also of superficial nature.

5 The genes that were identified in lower stage and grade tumors and shown to be similar to the expression in high stage tumors are listed in Tables 4A and 4B. These genes may "signal" a higher stage or grade, or represent a transition from low stage or grade to high stage or grade. To aid in avoiding interpreting bladder wall expression as tumor cell-specific expression, the expression level in bladder wall is listed in Tables 4A and 4B. Two columns  
10 are shown which simulate an increase in bladder wall content to 20% and 50% of the sample. These columns were obtained by adding a 20% or 50% contribution from the "bladder wall" column to the appropriate remaining percentage contribution (80% or 50%) from the TaGrII Pool column. Single tumor expression level (column labeled "Ta single tumor") was interrogated in  
15 this context. Expression levels which are unlikely to be due to bladder wall contamination are shown in bold; other expressions are shown in regular font. We believe this procedure is useful and leads to reliable conclusions.

These genes form a complex group of genes with highly different functions. It is not totally unexpected that mucin synthesis is changed, nor that  
20 cytokeratin 15 is decreased when moving from Ta and to higher stage. The gene expressions which signal a higher grade of atypia in already invasive grade III tumors are, among others, immunology related genes. This may indicate that the more atypical cells are either surrounded by inflammatory cells, or that the tumor cells start synthesizing these proteins. Further investigation is needed  
25 to elucidate this point, and these proteins will be an interesting parameter to follow in relation to clinical course in the future. The strong up-regulation of cathepsin B may indicate an increased proteolytic attack against the connective tissue.

30 The cause of the changed expression is unknown and could be either a transcriptional regulation or secondary to gain or loss of chromosome material. Both mechanisms are known to occur in cancer cells.

#### EXAMPLE 4

##### *Change of transcript level during the progression of bladder cancer.*

Biopsies from human bladder tumors were analyzed as single tumors or as pools of tumors representing the different stages in the progression of the bladder cancer disease. We used a total of 5 single tumors and 4 tumor pools, each pool made by combining six tumors. To generate a normal reference material, we pooled biopsies from normal bladder mucosa from 35 volunteers. The biopsies were disintegrated into single cell solutions immediately after removal, filtered and snap frozen in guanidinium isothiocyanate. From the cell solutions RNA was extracted, reverse transcribed to cDNA and the cDNA transcribed into labelled cRNA, that was incubated on the chip cartridges followed by scanning and scaling to a global chip intensity amounting to 150 units per probe set. The scaling made it possible to compare individual experiments to each other. To verify the reproducibility, double determinations were made in selected cases and showed a good correlation (Fig. 4A).

We compared gene expression at three different steps in the progression of bladder cancer to each other by the use of the normal pool as a reference. A scatter plot of the noninvasive pTa grade one tumor and the invasive highly abnormal grade four pT2+ tumor showed a minor subfraction of the gene transcripts to deviate much from those in the normal urothelium. The large majority of transcripts were within a narrow range in both tumors and normal urothelium (Fig. 4B,C). The number of deviating genes was higher in the most abnormal tumor.

We then analyzed transcripts that showed alterations larger than five-fold, when comparing three different pools representing the transition from normal urothelium to superficial tumor, and further on to invasive transitional cell carcinomas (TCC). The method applied consisted in a probe-to-probe comparison (20 probes per gene) based on the software GeneChip® Analysis Suite 3.1 from Affymetrix, Inc. Increased levels indicate that the transcript is either upregulated at the stated level or turned on *de novo* reaching a given fold above the background level. Decreased levels in a similar way indicate

reduction or loss of transcript. Alterations of a single transcript during the progression of the bladder cancer disease can follow several different pathways (Fig. 6). Some of the transcript changes reflect the transition from normal cells to tumor cells, and are grouped as *TCC related genes* (Fig. 6A, B). A distinct feature of group A was the presence of 6 smooth muscle related genes. Others are altered only in superficial tumors, not in invasive tumors, and are grouped as *Bladder papilloma related genes* (Fig. 6C, D). Group C, with downregulated genes, contained 15 immunology-related genes. Group D contained a variety of genes encoding proteins with different functions. Finally some genes only showed an alteration in invasive tumors and are grouped as *Invasive TCC related genes* (Fig. 6E, F). The genes in group E encoded functionally unrelated proteins, whereas group F contained 5 immunology-related genes. Thus, it seemed possible to define groups of genes whose expression level is associated with the stage of bladder tumors.

#### EXAMPLE 5

##### *Cluster Analysis*

The level of a gene transcript during disease progression can be thought of as a pattern that can be correlated to patterns of other gene transcripts. If the expression of one gene is very similar to the expression of another gene in several samples they are a correlated pair of genes. This pair of genes can then be correlated to other genes with a similar transcriptional behavior in the set of tissues examined, and together these constitute a gene cluster. In the next step the relation between clusters is established and a dendrogram of genes is formed, in which strongly correlating gene clusters are near each other. The principles are described in Eisen et al., Proc. Natl. Acad. Sci. USA 95, 14863 (1998). Briefly, each gene vector was placed in its own cluster, where the cluster prototype was set to the gene vector. All pair-wise vector angles between cluster prototypes were calculated. The smallest vector angle was identified, and those clusters were merged as a weighted average of the two prototypes (and also a weighted average of all the gene vectors each prototype represented). The vector angles were then updated between the newly merged

clusters and the merger process was repeated. The final clusters are displayed in the order in which they were merged.

Exactly the same procedure used to cluster genes can be used to cluster the tissue samples, showing the relation between the different tissues based on their gene expression. We based clustering analysis on either the 4067 transcripts being scored as present in at least one of the samples, or based on those 400 transcripts (see Table 9) that covaried best with a weighting scheme adding increasing values to increasing stages.

The scaled AvgDif measures as calculated by the Affymetrix software were extracted for the normal pool and each of the graded tissues. Only the 4067 genes with an AbsCall of P (present) in at least one of the tissues were considered. All AvgDif measures below 20 were set to 20. For each tissue and each gene, the AvgDif from the normal pool was either subtracted, to define the "absolute difference," or divided and natural logarithm applied to define the "log-fold" relative measure. The relative expression measures for each tissue (log-fold or absolute difference) were used to cluster tissues by a hierarchical method using the Euclidean distance between tissues. Tissue dendrograms were constructed with the PHYLIP program using clustering order and distances. A weighting scheme (see Example 6) for the seven observed stages and grades of cancer was used to select 200 positively covarying and 200 negatively covarying genes with respect to progression. The same hierarchical method and a normalized Euclidean distance (vector angle) were used to cluster the top 400 positively and negatively covarying genes for both relative expression measures. Gene dendrograms were constructed by the same method as for the tissue dendrograms.

#### Tissue clusters

Different algorithms based on either fold change or absolute differences in transcript levels across the different samples were applied to all transcripts or only those covarying with a progression scale. Both methods were able to cluster the tissues according to the tumor's or tumor pools stage and grade of atypia in a meaningful way (Fig. 5). The two noninvasive and the two invasive

pools each clustered very closely together both using the fold change and the absolute difference, indicating a close genetic relation between these, and indicating that one effect of pooling samples is a reduction of the variation in gene expression. The single tumor preparations showed a more varied  
5 distribution but still reflected the stage of the tumor. In the log-fold dendrograms (Fig. 5A, C) the superficial tumors 335, 837 and 901 cluster close to the superficial pools, but the pTa grade III tumor 901 seems closer to the superficial pools than the pTa grade II tumor 837. This may either be due to the variation in histopathological grading or due to the tumors having different  
10 genetic properties. The minimally invasive pT1 grade III tumor 320 is correctly placed in between the muscle invasive and the superficial tumors, and the muscle invasive tumor 713 is placed very close to the pools of pT2+ tumors. Tumor 713 seemed to be closer to the pT2+grade IV than Grade III pool although it was histopathologically scored as grade III. In the absolute  
15 difference dendrogram (Fig. 5B, D) the superficial tumors 837 and 901 are closely related to the superficial pools, the pT1 superficially invasive tumor is less related and finally the invasive tumor 713 located closest to the invasive pools. An exception was the superficial tumor pTa grade I, 335-6 that deviated from all other tumors. Whether this tumor has unique properties is unknown,  
20 however it did not deviate from the expected location in the dendrograms based on fold change.

The dendrograms show that the clustering algorithms work very well, that the dataset obtained from the oligonucleotide arrays reflect the biological properties of the tumors, and that objective information on a tumor's stage and  
25 grade can be obtained from mathematical analysis of gene expression data. Furthermore, it is seen that when ranking based on covariance to the progression is used to extract the top 10% covarying genes, these have a dendrogram that is almost identical to the one based on 4067 genes. We therefore used the ranking procedure when analyzing gene clusters.



### Gene clusters

The data obtained from cluster analysis are presented as colored images in which genes with similar expression patterns are clustered next to each other on the vertical axis and the samples according to stage and grade on the horizontal axis (Fig. 7). The color of each cell in the tabular image represents the ratio between the sample expression of the gene in question and the expression in normal urothelium. The color saturation is directly proportional to the magnitude of the measured expression ratio, cyan indicating the lowest ratio, yellow indicating the highest ratio. Black indicates a ratio of one, a similar level of expression in tumor as in normal urothelium. The two different clustering methods, log-fold and absolute difference gave completely different clusters across the set of samples (Fig. 7).

In the log-fold based cluster analysis, the top 200 positively covarying genes can be divided into five different clusters containing functionally related genes (Fig. 7, left upper column). The cluster shown at the top contains genes related to cell proliferation such as cyclins A and E, PCTAIRE-1, and SWI/SNF. The next cluster mainly contains oncogenes and growth factors. Genes in both these clusters are expressed at a level close to that seen in normal urothelium in superficial tumors (black) and increase during disease progression (yellow). The two clusters at the lower part show a reduced expression level in the superficial tumors compared to normal (cyan) and then an increase above the normal urothelial level in invasive tumors (shades of yellow). These clusters contain a set of immunologically related genes, like different MHC's and immunoglobulins, cancer related genes like src-like kinase and Fas/Apo-1, and finally another immunologically related cluster at the bottom.

The 200 negatively covarying genes (Fig. 7, left lower column) could be divided into three different clusters based on log-fold change and function of the genes. The upper cluster contains genes related to cell adhesion like laminins, integrins and P-cadherin (Fig. 7, left lower column). They all show a reduced level of expression in the invasive tumors as evidenced by the cyan

coloring to the right. The small middle cluster contains four genes related to transcription, and finally the lowest cluster in the figure contains five proteinases, like cathepsin E (two different probe sets for the same gene) and metalloproteinase as well as a protease inhibitor. The lower clusters are characterized by an increase in level in superficial tumors (yellow) followed by a reduction to a level below normal urothelium in invasive tumors.

In the absolute difference based cluster analysis the top 200 covarying genes that showed a positive covariance contained only few clusters having a functional relation. The upper cluster (Fig. 7, right upper column) contained five genes related to cell proliferation like the microtubule-associated protein and oncoprotein 18/stathmin. The next cluster was a set of immunology related genes like MHC and LERK-2. Both these clusters showed an increased expression level in invasive tumors compared to normal urothelium. The cluster at the lower end of the figure showed a reduced level in superficial tumors and a return to normal or increased level in invasive tumors. This cluster contained many immunology-related genes like MHC, HLA and immunoglobulin genes. Finally, for genes that showed a negative covariance based on absolute difference (Fig. 7, right lower column), this was mainly due to clustering of ribosomal genes. A very tight cluster in the middle of the graph show ribosomes that are upregulated in expression in superficial tumors and downregulated or unaltered in invasive tumors. The middle ribosomal cluster is generally expressed at a lower level than in normal urothelium, whereas the cluster at the bottom of the figure is similar to the one in the middle. Other genes that seemed to cluster were a small tight cluster of immunology related genes, and two tumor inhibitors, TGF-beta superfamily protein and Sui1 in the uppermost cluster.

Thus, a pattern of altered gene transcription occurs during the progression of bladder cancer that involves a number of genes belonging to functionally different gene families. Cluster analysis identified many biologically relevant genes, and in that aspect was superior to the probe-by-probe comparison described above.

MISSING AT THE TIME OF PUBLICATION

where 
$$dp(X,Y) = \sum_{i=1}^n (x_i \times y_i)$$

and 
$$len(X) = \sqrt{\sum_{i=1}^n x_i^2}$$

After the sample had been compared in this way to each pool, invasive and non-invasive, the pool which differed from the sample by the smaller angle was  
5 determined to be the class of the sample.

Samples from ten bladder tumors were assigned by the classifier, and the results are shown in Fig. 8. The classifier was able to correctly call the presence or absence of muscle invasion in all ten samples examined (7 non-muscle invasive, 3 muscle invasive), based on categorizations made by a  
10 pathologist. To cross-validate the classification methodology, two non-invasive (Ta) and two invasive (T2) pools were compared with tumors from each of 10 patients. Since two pools were available for each stage, four possible combinations (classifier sets) of one Ta pool and one T2 pool were tested. The classification rate was calculated as the number of tumors correctly  
15 identified times 10. The results for each of the four classifier sets were averaged to obtain the data shown in Fig. 8.

#### EXAMPLE 7

##### *Confirmation of microarray expression analysis by Northern blotting*

In order to confirm the array data, Northern blotting was performed on  
20 the same samples of RNA as used for array hybridization. A standardized amount of RNA was run in each lane, followed by blotting with a labelled RNA probe, and quantitation of the band obtained (Fig. 9).

Total RNA, 0.5–4 µg per lane, was separated in 1.5% agarose-formaldehyde gels, transferred onto Zeta-Probe® nylon membrane (Bio-Rad)  
25 by positive pressure (Posiblottter, Stratagene) and immobilized by baking for 20 min at 120°C. The filters were hybridized with digoxigenin- labelled (DIG) RNA transcribed from 600-1000 bp PCR products containing a T7 promotor

incorporated via the antisense primers. Filters were hybridized with 10 ng probe per ml of ultrahyb™ hybridisations solution at 68°C for 16 h and washed to a stringency of 0.1x SSC at 68°C. Specific hybridization was detected by reacting the membrane with monoclonal anti-DIG antibodies conjugated with alkaline phosphatase, incubating with ECF chemifluorescence substrate (AmershamPharmacia) and scanning on a Storm 840 (Molecular Dynamics). The hybridization signals were quantified with ImageQuant 5.0 software.

As can be seen from the plots, the oligonucleotide array and the Northern blot gave similar results with the different probes, both in genes expressed at a high level (beta2-microglobulin), and those expressed at a very low level (CD59).

#### EXAMPLE 8

##### *Immunohistochemical localization of expressed proteins*

The biopsy samples used to study gene expression in bladder tumors contain cells other than urothelial cells, although the amount of other cells should be limited due to the use of single cell solutions. We therefore used immunostaining of tissue sections from the single tumors examined to determine which cells expressed the protein encoded by the transcript in question. We used the transcript levels to select a group of proteins supposed to show variation from sample to sample, making possible a rough correlation between level of protein detected and intensity of the transcript on the microarray.

Four µm sections were cut from paraffin-embedded tissue blocks, mounted, and deparaffinized by incubation at 80°C for 10 min, followed by immersion in heated oil at 60°C for 10 min (Estisol 312, Estichem A/S, Denmark) and rehydration. Antigen retrieval was achieved in TEG (Tris-EDTA-Glycerol) buffer using microwaves at 900 W. The tissue sections cooled in the buffer for 15 min before a brief rinse in tap water. Endogenous peroxidase activity was blocked by incubating the sections with 1% H<sub>2</sub>O<sub>2</sub> for 20 min, followed by three rinses in tap water, 1 min each. The sections were then soaked in PBS buffer for 2 min. The next steps were modified from the

descriptions given by Oncogene Science Inc., in the Mouse Immunohistochemistry Detection System, XHCO1 (UniTect, Uniondale, NY, USA). Briefly, the tissue sections were incubated overnight at 4°C with primary antibody (against beta-2 microglobulin (Dako), cytokeratin 8, cystatin-C (both from Europa, US), junB, CD59, E-cadherin, apo-E, cathepsin E, vimentin, IGFII (all from Santa Cruz), followed by three rinses in PBS buffer for 5 min each. Afterwards, the sections were incubated with biotinylated secondary antibody for 30 min, rinsed three times with PBS buffer and subsequently incubated with ABC (avidin-biotinylated horseradish peroxidase complex) for 30 min, followed by three rinses in PBS buffer. Staining was performed by incubation with AEC (3-amino-ethylcarbazole) for 10 min. The tissue sections were counter stained with Mayers hematoxylin, washed in tap water for 5 min. and mounted with glycerol-gelatin. Positive and negative controls were included in each staining round with all antibodies.

We found several of the proteins to be expressed not only by urothelial cells but also by leukocytes, endothelial cells or histiocytes (Table 10, Fig. 10). Of the examined proteins only keratin 8 and ApoE were confined to urothelium; the other proteins were also present in other cell types. Based on the assumption that transcript and protein originates from the same cell, this clearly indicates that conclusions on the origin of the transcripts requires a histological examination, or other verification procedure. The amount of stroma in a biopsy, the vascularization (amount of endothelial cells), the level of leukocyte infiltration, and the grade of atypia of the urothelial cells were all parameters that seemed to influence the level of a given transcript.

The level of protein identified by immunostaining, disregarding the cell type expressing the protein, correlated well with the transcript level measured on the microarray (Fig. 10). However, no attempt was made to quantitate the immunostaining due to the often large heterogeneity in staining across the sections.

Table 1

Gene name	Description	Con. Tissue	8733-2	8733-1	8739-1
		Bladder, Uterus	T <sub>1</sub> q <sub>III</sub>	T <sub>2</sub> q <sub>III</sub>	T <sub>2</sub> q <sub>IV</sub>
<b>Structural proteins</b>					
<i>KRT83</i> , nt	Human mRNA for cytokeratin 4 C-terminal region	4498	20	20	20
<i>L42601</i> , nt	Human mRNA for cytokeratin 4 C-terminal region	7458	37	74	81
<i>L42601</i> , nt	Human mRNA for cytokeratin 4 C-terminal region	5153	183	126	389
<i>V01516</i> , nt	Human mRNA for cytokeratin 4 C-terminal region	4939	125	153	386
<i>K00351</i> , nt	Human mRNA for cytokeratin 4 C-terminal region	4779	140	175	364
<i>M10277</i> , nt	Human mRNA for cytokeratin 4 C-terminal region	4185	2578	1189	1322
<i>MG2815-HT4023</i> , nt	Human mRNA for cytokeratin 4 C-terminal region	3789	3321	3768	1830
<i>MG2815-HT2931</i> , nt	Human mRNA for cytokeratin 4 C-terminal region	3415	3458	4176	2003
<i>X67803</i> , nt	Human mRNA for cytokeratin 4 C-terminal region	2265	3687	4148	2018
<i>L42611</i> , nt	Human mRNA for cytokeratin 4 C-terminal region	2126	126	180	193
<i>MG2815-HT2931</i> , nt	Human mRNA for cytokeratin 4 C-terminal region	1946	301	228	224
<i>M05787</i> , nt	Human mRNA for cytokeratin 4 C-terminal region	1926	1594	2811	1178
<i>M55998</i> , nt	Human mRNA for cytokeratin 4 C-terminal region	1735	68	316	2326
<i>M21389</i> , nt	Human mRNA for cytokeratin 4 C-terminal region	1610	425	4219	1874
<i>X13839</i> , nt	Human mRNA for cytokeratin 4 C-terminal region	1572	20	20	611
		405	20	329	1164
<b>Metabolic, catabolic, and anabolic enzymes</b>					
<i>U46632</i> , nt	Human cystatin B gene, complete cds	10030	859	463	1697
<i>X01877</i> , nt	Human liver mRNA for glyceraldehyde-3-phosphate dehydrogenase [GAPD, EC 1.2.1.12]	3234	3018	3048	1884
<i>D78381</i> , nt	Human mRNA for ornithine decarboxylase "antizyme," ORF 1 and ORF 2	2518	2151	2373	4422
<i>U46609</i> , nt	Human ubiquitin gene, complete cds	2053	2902	2621	3237
<i>M66400</i> , nt	Human phosphatase A2 "mRNA," complete cds	1653	1320	1048	1051
<i>M24485</i> , nt	Human ubiquitin "mRNA," complete cds	1522	2457	1493	544
<i>M26860</i> , nt	Human ubiquitin "mRNA," complete cds	1506	599	908	1072
<i>M63138</i> , nt	Human cathepsin D (catD) gene	1489	895	1131	1990
<i>X77584</i> , nt	Human mRNA for ATL-derived factor/thyrotropin	1470	815	713	568
<i>X02152</i> , nt	Human mRNA for lactate dehydrogenase-A "LDH-A," EC 1.1.1.27	1432	1478	491	1173
<i>M27891</i> , nt	Human cystatin C (CST3) gene	1363	1026	730	2233
<i>X58997</i> , nt	Human UBA52 gene coding for ubiquitin-52 amino acid fusion protein	1308	1414	1298	1637
<b>Proteins related to transcription and translation</b>					
<i>Z12982</i> , nt	Human mRNA for ribosomal protein L41	7468	8785	8449	8798
<i>X89150</i> , nt	Human mRNA for ribosomal protein S18	6256	6392	4994	2859
<i>L06499</i> , nt	Human ribosomal protein L37a (RPL37A) "mRNA," complete cds	8064	6641	6648	4138
<i>L04483</i> , nt	Human ribosomal protein S21 (RPS21) "mRNA," complete cds	5632	10817	9082	2846
<i>D23680</i> , nt	Human mRNA for ribosomal protein, complete cds	5345	4337	4331	5096
<i>J04817</i> , nt	Human elongation factor EF-1-alpha "gene," complete cds	4835	8665	7517	2180
<i>X17206</i> , nt	Human mRNA for LLR3p3	4828	9042	8931	4029
<i>U14969</i> , nt	Human ribosomal protein L28 "mRNA," complete cds	4539	4966	3427	4979
<i>M06854</i> , nt	Human ribosomal protein S16 "mRNA," complete cds	4473	5801	5019	4247
<i>MG2873-HT3017</i> , nt	Ribosomal Protein L30 Homolog	4372	8812	7949	4102
<i>M01757</i> , nt	Human S19 ribosomal protein "mRNA," complete cds	4369	8727	4087	4311
<i>U14973</i> , nt	Human ribosomal protein S29 "mRNA," complete cds	4281	5175	4134	4410
<i>MG3364-HT3541</i> , nt	Ribosomal Protein L37	4242	7295	4338	3574
<i>X03689</i> , nt	Human mRNA fragment for elongation factor TU (N-terminus), hpb=X03689 htype=RNA	4233	6855	4191	1506
<i>X56932</i> , nt	Human mRNA for 231kD highly basic protein	4210	6461	5730	5089
<i>X08022</i> , nt	Human ribosomal protein S5 "mRNA," complete cds	3963	4047	3534	3591
<i>U14970</i> , nt	Human ribosomal protein L27a "mRNA," complete cds	3928	4473	2410	2569
<i>U14968</i> , nt	Human ribosomal protein L27a "mRNA," complete cds	3885	3772	3079	4104
<i>X03342</i> , nt	Human mRNA for ribosomal protein L32	3818	5824	4184	3384
<i>X67247</i> , nt	Human mRNA for ribosomal protein S8	3725	3928	2702	3155
<i>U14972</i> , nt	Human ribosomal protein S10 "mRNA," complete cds	3695	6292	2894	2903
<i>M17885</i> , nt	Human acidic ribosomal phosphoprotein P0 "mRNA," complete cds	3690	4911	4728	5335
<i>H01800-HT1823</i> , nt	Ribosomal Protein S20	3582	3589	3808	4271
<i>M17886</i> , nt	Human acidic ribosomal phosphoprotein P1 "mRNA," complete cds	3488	3038	3138	2648
<i>X06817</i> , nt	Human mRNA for ribosomal protein S11	3387	4581	4705	3744
<i>X15940</i> , nt	Human mRNA for ribosomal protein L31	3375	8980	5371	3528
<i>U12485</i> , nt	Human ribosomal protein L33 "mRNA," complete cds	3327	5675	2106	3004
<i>M18000</i> , nt	Human ribosomal protein S17 "gene," complete cds	3315	6115	4537	2410
<i>X03527</i> , nt	Human ribosomal protein L19	3282	5748	4830	1832
<i>M13934_cds2</i> , nt	Human ribosomal protein S14 "gene," complete cds	3281	3512	1927	2578
<i>M04718</i> , nt	Human ribosomal protein S25 "mRNA," complete cds	3228	2527	2087	3181
<i>M14199</i> , nt	Human laminin receptor (2H5 epitope) "mRNA," 3' end	3222	8318	6902	1912
<i>L06505</i> , nt	Human ribosomal protein L12 "mRNA," complete cds	3024	4981	3541	2787
<i>X73460</i> , nt	Human mRNA for ribosomal protein L3	2949	2230	1849	2458
<i>X62691</i> , nt	Human mRNA for ribosomal protein (homologous to yeast S24)	2885	3540	3732	1534
<i>U14971</i> , nt	Human ribosomal protein S9 "mRNA," complete cds	2845	1907	1361	2603
<i>M77232</i> , nt	Human ribosomal protein S6 "gene," complete cds and flanking regions	2615	1948	1982	2470
<i>X79234</i> , nt	Human mRNA for ribosomal protein L11	2602	2298	2184	2790
<i>U09953</i> , nt	Human ribosomal protein L9 "mRNA," complete cds	2506	2840	2851	1911
<i>X55954</i> , nt	Human mRNA for HLT3 ribosomal protein homologue	2495	5371	3501	2681
<i>Z28878</i> , nt	Human gene for ribosomal protein L38	2480	4036	2416	2159
<i>M32053</i> , nt	Human H19 RNA "gene," complete cds (spliced in situ)	2486	6187	2945	320
<i>L38941</i> , nt	Human ribosomal protein L34 (RPL34) "mRNA," complete cds	2460	4226	2950	2004
<i>Z28407</i> , nt	Human mRNA for ribosomal protein L8	2386	2775	1342	1797
<i>Z49148</i> , nt	Human mRNA for ribosomal protein L29	2303	4080	2201	1028
<i>X84707</i> , nt	Human BBC1 mRNA	2268	2402	2224	2730
<i>M31520</i> , nt	Human ribosomal protein S24 mRNA	2242	8267	4925	1409
<i>D14530</i> , nt	Human homolog of yeast ribosomal protein "S28," complete cds	2193	2112	1861	945
<i>MG021-HT821</i> , nt	Ribosomal Protein S13	2158	1987	1440	1700
<i>M38072</i> , nt	Human ribosomal protein L7a (surf 3) large subunit "mRNA," complete cds	2150	8188	2380	1000
<i>U58682</i> , nt	Human ribosomal protein S28 "mRNA," complete cds	2129	3034	1970	1929
<i>X89391</i> , nt	Human mRNA for ribosomal protein L6	2094	2706	2790	1187
<i>MG33-HT33</i> , nt	Ribosomal protein S4	2077	1656	1078	1277
<i>AB001533</i> , nt	Human mRNA for "Op1," complete cds	2063	2155	1707	3217
<i>M55409</i> , nt	Human pancreatic tumor-related protein "mRNA," 3' end	1992	4150	1919	815
<i>L19527</i> , nt	Human ribosomal protein L27 (RPL27) "mRNA," complete cds	1991	3103	2261	2052
<i>MG4319-HT4589</i> , nt	Ribosomal Protein L5	1960	2281	1600	1370
<i>X53777</i> , nt	Human L23 mRNA for putative ribosomal protein	1915	3100	2330	1075
<i>M31520</i> , nt	Human ribosomal protein S24 mRNA	1876	2419	2367	1416
<i>MG613-HT613</i> , nt	Ribosomal Protein S12	1873	2156	2000	1145
<i>X55715</i> , nt	Human Hmms3 mRNA for 40S ribosomal protein s3	1744	2569	2109	843
<i>D78209</i> , nt	Human mRNA for ribosomal protein "L39," complete cds	1639	2212	1743	566
<i>X51345</i> , nt	Human jun-B mRNA for JUN-B protein	1446	150	330	721
<i>D87735</i> , nt	Human mRNA for ribosomal protein "L14," complete cds	1439	1990	1508	1358
<i>X57959</i> , nt	Human mRNA for ribosomal protein L7	1426	1788	1880	569
<i>MG384-HT384</i> , nt	Ribosomal Protein L26	1409	2436	1347	1144
<i>L11566</i> , nt	Human ribosomal protein L12 (RPL12) "mRNA," complete cds	1399	1875	1204	1144
<i>MG542-HT464</i> , nt	Ribosomal Protein L10	1378	3325	1729	1260
<i>L26247</i> , nt	Human ribosomal protein L10	1375	1812	1521	1099
<i>X52966</i> , nt	Human mRNA for ribosomal protein L35a	1361	1280	510	1415

<b>Proteins involved in posttranslational modification</b>				
Z23090_at	H sapiens mRNA for 28 kDa heat shock protein	9309	20	939
S79522_at	Juikutin carboxyl extension protein [human," mRNA," 540 nt]	3161	6889	5541
U12404_at	Human C1s-19 "mRNA," complete cds	2522	2390	1894
X58277_at	H sapiens CL 100 mRNA for protein tyrosine phosphatase	1372	71	165
X52851_mn1_at	Human cyclophilin gene for cyclophilin [EC 5.2.2.18]	1727	1798	2284
<b>Cell membrane proteins</b>				
D00017_at	Human lipocortin 4 mRNA	2387	1068	1191
M33580_at	Human 26-kDa cell surface protein TAPA-1 "mRNA," complete cds	1423	1013	1244
<b>Secreted proteins/hormones/growth factor related proteins</b>				
M17733_at	Human thymosin beta-4 "mRNA," complete cds	2774	3702	4130
<b>Proteins related to immunology</b>				
M83438_s_at	"Human Ig rearranged gamma chain "mRNA," V-J-C region and complete cds"	4579	20	5638
J00105_s_at	"Human beta-2 microglobulin gene "mRNA," 3' end"	3664	2784	6031
M87789_s_at	"Human (hybridoma H210) anti-hepatitis A IgG variable "region," constant "region," complementation	3447	20	3373
M24184_at	Human MHC protein homologous to chicken B complex protein "mRNA," complete cds	3378	2880	1904
D49824_s_at	Human HLA-B null allele mRNA	2821	1098	1448
X00270_at	Human gene for HLA-DR alpha heavy chain class II antigen (immune response gene) of the major I	2780	429	2264
S82297_at	"beta 2-microglobulin (11bp deleted between nucleotides 98-99) [human," colon cancer cell line "H-	2360	1125	3442
M34516_at	Human omega light chain protein 14.1 (Ig lambda chain related) gene	2235	137	1422
M84526_at	Human adipsin/complement factor D "mRNA," complete cds	1875	20	145
S71043_mn1_s_at	Ig alpha 2+ immunoglobulin A heavy chain allotype 2 (constant "region," germ line) [human," peripher	1473	54	723
M57710_at	Human IgE-binding protein (epsilon-BP) "mRNA," complete cds	1449	1184	1215
<b>Nucleoproteins</b>				
M84711_at	Human v-fos transformation effector protein (Ffe-1)," mRNA complete cds	3851	3381	2942
U43901_mn1_s_at	Human 37 kD laminin receptor precursor/p40 ribosome associated protein "gene," complete cds	2812	8290	3353
D13413_mn1_s_at	Human mRNA for tumor-associated 120 kDa nuclear protein "p120," partial cds(carboxyl terminus)	2851	4033	5077
M32405_at	Human homologue of rat insulinoma gene "Irg)," exon 4-Jun	2005	1973	1418
M11353_at	Human H3.3 histone class C "mRNA," complete cds	1697	1853	3281
M23813_at	Human nucleophosmin "mRNA," complete cds	1448	1117	1338
X03827_at	Y box binding protein-1 (YB-1) mRNA	1439	1139	1225
<b>Mitochondrial proteins</b>				
Z70759_at	H sapiens mitochondrial 16S rRNA gene (partial) Igb=Z70759 mttype=rRNA	7648	3970	5895
X15241_at	Human COX VIa-L mRNA for cytochrome c oxidase liver-specific subunit VIa (EC 1.9.3.1)	1338	1580	1649
<b>Other proteins</b>				
M26311_s_at	Human cystic fibrosis antigen mRNA, complete cds	15733	1713	381
M88757_s_at	S100 Calcium binding protein A7	10368	20	20
L05187_at	"Homo sapiens small proline-rich protein 1 (SPRR1A) "gene," complete cds"	6544	64	104
L10343_at	Human elastin "gene," complete cds	5388	20	39
D88472_at	Human DNA for cystatin A	5167	52	114
HG3214-HT3391_at	Metastases/stimulin 1	4966	9358	4730
M21005_at	Human migration inhibitory factor-related protein 8 (MRP8) "gene," complete cds	4930	20	20
X16064_at	Human mRNA for transcriptionally controlled tumor protein	4572	3638	3989
L05188_f_at	"Homo sapiens small proline-rich protein 2 (SPRR2B) "gene," complete cds"	4465	59	20
M19988_at	"Human small proline rich protein (sprt) "mRNA," clone 128"	4441	20	20
X53065_f_at	Human SPR2-1 gene for small proline rich protein (exon 2)	4285	117	33
X58482_f_at	H sapiens THN12 gene exon 11 Igb=X58482 mttype=DNA /annot=mRNA	3885	3603	2730
HG3348-HT3751_at	Wilm's Tumor-Related Protein	3843	3170	2728
M20030_f_at	"Human small proline rich protein (sprt) "mRNA," clone 830"	3809	20	28
X78223_s_at	H sapiens MAL gene exon 1 (and joined CDS).	3490	20	20
X06908_at	Human mRNA for lipocortin	3217	182	283
M11147_at	Human ferritin L chain "mRNA," complete cds	3172	7843	8178
X57348_s_at	H sapiens mRNA (clone 9712)	3031	20	52
V00594_s_at	Human mRNA for metallothionein from cadmium-treated cells	2805	1553	1408
U06155_s_at	Human chromosome 1q subtelomeric sequence D1S553, Igb=U06155 mttype=DNA /annot=CDS	2575	7538	6245
M94856_at	Human fatty acid binding protein homologue (FA-FABP) "mRNA," complete cds	2525	166	375
Y07755_at	H.sapiens S100A2 "gene," exon "1," 2 and 3	2378	27	47
U78027_mn3_at	Homo sapiens Bruton's tyrosine kinase (BTK), alpha-D-galactosidase A (GLA), L44-His ribosomal p2	2156	3154	2439
D38383_at	Human mRNA for "calcizem," complete cds	2101	1427	1223
X57351_s_at	Human 1-8D gene from interferon-inducible gene family	1945	1342	2890
M38591_at	Homo sapiens cellular ligand of annexin II (p11) "mRNA," complete cds	1819	2870	1179
L20941_at	Human ferritin heavy chain "mRNA," complete cds	1771	2131	1519
M97815_at	Human retinoic acid-binding protein 4 (CRABP-4) gene	1655	123	243
X53298_s_at	H sapiens mRNA for IRAP	1652	79	66
X04470_s_at	Human mRNA for arylsulphatase (ALP) from cervix uterine	1525	20	20
X87951_at	H.sapiens mRNA for proliferation-associated gene (pag)	1472	1380	1439
HG4069-HT4339_s_at	Monocyte Chemoattractant Protein 1	1416	213	380
Y07906_at	H.sapiens mRNA for Progression Associated Protein	1399	21	26
J04152_mn1_s_at	M151 gene extracted from Human gastrointestinal tumor-associated antigen GA733-1 protein "gene,"	1311	325	557
S81914_at	LEX-1 recombination-inducible immediate-early gene [human," placenta," mRNA "Partial," 1223 nt]	1310	188	190



## Bladder wall compared to single cell solutions and biopsies of tumors

Gene name	Gene product	Biopsy Bladder wall	Single cell solutions				Biopsies			
			Ta Gr1	Ta GrII	Ta GrIII	T1 GrIII	T1 GrIII	T2 GrIII	T2 GrIV	T2 GrIV
LC5188_f_at	Homo sapiens small proline-rich protein 2 (SPRR2B) "gene," complete cds	4465	-	-	-	-	-	-	-	-
L10343_at	Human elafin "gene," complete cds	5388	-	-	-	-	-	-	-	310
L42583_f_at	Homo sapiens keratin 6 isoform K6a (KRT6A) gene	4939	384	348	-	426	-	-	-	388
L42601_f_at	Homo sapiens keratin 6 isoform K6c (KRT6C) gene	5155	475	391	-	544	-	-	-	389
M18886_at	Human small proline rich protein (sprl) "mRNA," clone 128	4441	-	160	-	-	-	-	-	-
M2030_f_at	Human small proline rich protein (sprl) "mRNA," clone 930	3809	-	-	-	-	-	-	-	319
M21005_at	Human migration inhibitory factor-related protein 8 (MRP8) "gene," complete cds	4930	-	-	-	-	-	-	-	611
M21389_at	Human keratin type II (58 kD) "mRNA," complete cds	1572	-	-	-	-	188	-	-	516
S81914_at	IEX-1= radiation-inducible immediate-early gene	1310	-	-	-	-	-	-	-	-
V01516_f_at	Human messenger fragment encoding cytoskeletal keratin (type II).	4779	452	300	346	478	-	-	-	78
X07695_at	Human mRNA for cytokeratin 4 C-terminal region	7458	-	-	-	-	-	-	-	-
X53085_f_at	Human SPR2-1 gene for small proline rich protein (exon 2)	4285	-	-	178	-	-	-	-	193
X67683_at	H sapiens mRNA for keratin 4 /gb-X67683 /ntype=RNA	2126	-	223	-	154	-	-	-	343
X68277_at	H.sapiens CL 100 mRNA for protein tyrosine phosphatase	1972	87	78	81	119	71	165	-	71
Y07909_at	H sapiens mRNA for Progression Associated Protein	1399	-	76	-	114	-	-	-	-

Table 2A

## Expression of genes related to bladder wall

Gene name	Gene product	Bladder wall	Single cell solutions					Biopsies				
			Ta Gr1	Ta Gr1	Ta Gr1	T1 Gr1	T2 Gr1	T1 Gr1	T2 Gr1	T2 Gr1	T2 Gr1	Mean
Z19554_s_at	H.sapiens vimentin gene	1186	-	-	-	422	204	334	853	674	620	
J02854_at	Human 20-kDa myosin light chain (MLC-2)	412	-	-	-	-	-	-	-	615	205	
M21812_at	Human (clone PVHLC2-24) myosin light chain 2	175	-	433	-	-	690	374	427	410	404	
U48959_at	Human myosin light chain kinase (MLCK)	621	-	-	-	-	-	-	-	617	206	
X05276_at	Human mRNA for fibroblast tropomyosin TM30 (pl)	642	261	313	294	245	139	178	283	214	225	
Z24727_at	H.sapiens tropomyosin isoform	464	55	76	98	56	59	365	468	607	480	
M12125_at	"Human fibroblast muscle-type tropomyosin"	586	-	-	-	-	-	-	-	426	142	
M19267_s_at	"Human tropomyosin"	284	-	90	-	207	-	492	313	198	334	
M63391_rna1_at	Human desmin gene, complete cds.	392	-	192	-	-	-	-	-	905	302	
M26576_cds2_at	Human alpha-1 collagen type IV gene, exon 52.	207	-	-	-	-	-	-	-	290	97	
Sum of expressed units		4869	316	1104	392	930	1092	1743	2344	4956	3014	
X74929_s_at	H.sapiens KRT8 mRNA for keratin 8		5006	2266	3494	2434	2450	2074	1423	390	1296	

Table 22

Table 3. Number of genes, out of 3400 genes examined, that are expressed as in the tumor-pool to which the tumor belongs, or altered as in a tumor pool of higher or lower stage or grade

Clinical data on tumor	5th superficial recurrence Grade II	First invasive tumor Grade III	Primary tumor, large solid muscle invasive Grade IV
Expression like tumor pool	770 genes	516 genes	625 genes
Unique to tumor	58	75	93
<b>Increased expression similar to invasive Grade IV pool</b>	<b>24</b>	<b>47</b>	-
<b>Decreased expression similar to invasive Grade IV pool</b>	<b>19</b>	<b>22</b>	-
Increased or decreased similar to Grade II		45	33

The lines in bold list genes that signal a higher stage or grade.

Table 4A Gene expression that signal a higher grade or stage

Gene Name	Gene Product	TaGr1 Pool	Ta Single Tumor	T2G/IV Pool	Deviation*	Bladder wall	20% Wall**	50% Wall
HQ2147-IT2217r_at	Mucin "3," intestinal (Ob:M65406)	0	330	641	On	0	0	0
HQ888-IT880_at	Human mucin 6, gastric (single repeat clone) human (fragment), partial CDS	0	426	493	On	0	0	0
Y00787_s_at	Human mRNA for MDNCF (monocyte-derived neutrophil chemotactic factor)	0	327	393	On	224	44.8	112
M21388_r_at	Human unproductively rearranged Ig mu-chain mRNA V-region (VD), 5' end, clone mu-3A1A	0	284	216	On	0	0	0
X83492_at	H.sapiens mRNA for Fas/Apo-1 (clone pCRTM11-Fasdelta(4,7))	0	236	367	On	0	0	0
X07696_at	Human mRNA for cytokeratin 16	328	0	0	Off	0	282.4	164
J06036_s_at	Human cathepsin E "mRNA," complete cds	1145	302	0	Decreased	0	916	672.6
M84424_at	Human cathepsin E (CTSE) gene	413	98	0	Decreased	0	330.4	206.5
U20734_s_at	Human transcription factor JunB (JunB) "gene," 5' region and complete cds	1250	324	0	Decreased	1069	1213.8	1169.5
X69798_at	Human PRAD1 mRNA for cyclin	436	0	0	Off	63	361.4	249.6
L35263_at	Human CSAdd binding protein (CSBP1) "mRNA," complete cds	162	0	0	Off	0	129.8	81
M17683_s_at	Human preproinsulin-like growth factor II (IGF-II) variant "mRNA," complete cds	1663	489	0	Decreased	0	1330.4	831.6
M62403_s_at	Human insulin-like growth factor binding protein 4 (IGFBP4) "mRNA," complete cds	968	245	0	Decreased	337	841.8	652.5
M34376_s_at	Homo sapiens (clone lambda MSP131) beta-microseminoprotein (MSP) gene	280	0	0	Off	0	224	140
U22178_s_at	Human prolactin secretory protein 57 "mRNA," complete cds, tgc-U22178 hyper-RNA	89	0	0	Off	0	71.2	44.5
U69263_at	Human metelin-2 precursor "mRNA," partial cds	116	0	0	Off	152	123.2	134
U72649_at	Human BTG2 (BTG2) "mRNA," complete cds	886	274	289	Decreased	244	767.6	666
U81008_at	Human p76 "mRNA," complete cds	183	0	0	Off	76	189.6	134.5
U80916_at	Human clone 23815 mRNA sequence	250	0	0	Off	31	206.2	140.5
X63576_ma1_at	H.sapiens gene for parvalbumin,	176	0	0	Off	0	140.8	88
X78180_at	H.sapiens mRNA for lung amiloride sensitive Na+ channel protein	253	0	0	Off	266	263.4	264
X87159_at	H.sapiens mRNA for beta subunit of epithelial amiloride-sensitive sodium channel	188	0	0	Off	0	150.4	94
Y00264_at	Human mRNA for amyloid A4 precursor of Alzheimer's disease	296	0	0	Off	183	272.6	239
Z78693_s_at	H.sapiens mRNA for protein-tyrosine phosphatase NC-PTPDOM1	196	0	0	Off	0	156.8	88

Only genes scored as present are shown. \*Deviation describes aberration from pool. \*\* 20% and 50% describes expected units of expression if tumor pool was added 20% or 50% bladder wall components. Genes in bold do not need interrogation of bladder wall contribution. Off, genes that are turned off; On, genes that are turned on.

Table 4B Gene expression that signal a higher grade or stage

Gene Name	Gene Product	T2GrIII Pool	2GrIII Single tumor	T2GrIV Pool	Grade III po	Bladder wall	20% Wall	50% Wall
X13601_at	Hsapiens gene for cytokeratin 20	0	152	102	On	0	0	0
X03689_s_at	Human mRNA fragment for elongation factor TU (N-terminus). lgb-X03689 htype=RNA	0	1845	2082	On	4233	846.6	2118.5
X04347_s_at	Human liver mRNA fragment DNA binding protein UPI	0	1324	836	On	911	182.2	466.5
M21142_cds2_s_at	homologue (C-terminus) guanine nucleotide-binding protein G-s-alpha-3 gene extracted from Human guanine nucleotide-binding protein alpha-subunit gene (G-s-alpha)	0	1106	839	On	782	166.4	391
J00106_s_at	Human beta-2 microglobulin gene "mRNA," 3' end	1137	8199	4892	Increased	3664	1842.4	2400.5
S02297_at	beta 2-microglobulin (11bp deleted between nucleotides 98-99) "Human," colon cancer cell line "HCT," mRNA "Mutant," 416 nt	0	4908	3909	Increased	2360	968.4	1489
M34616_at	Human omega light chain protein 14.1 (lg lambda chain related) gene	0	4889	6268	On	2235	447	1117.5
L02328_f_at	Homo sapiens (clone Hu lambda-17) lambda-like "gene," complete cds	0	373	734	On	0	0	0
M63438_s_at	Human Ig rearranged gamma chain "mRNA," V-J-C region and complete cds	0	1402	7075	On	4579	915.8	2289.5
M87789_s_at	Human (hybridoma H210) and-hepatitis A IgG variable regions "mRNA," complete cds	0	2420	4769	On	3447	689.4	1723.5
S71043_ma1_s_at	Ig alpha 2-immunoglobulin A heavy chain allotype 2 (constant "region," germ line) "Human," peripheral blood "neutrophils," "Genomic," 1799 nt	0	1175	2608	On	1473	294.6	736.5
M14483_ma1_s_at	PTMA gene extracted from Human prothymosin alpha "mRNA," complete cds	0	1410	948	On	641	128.2	320.5
M16662_at	Human pancreatic elastase IIA mRNA, complete cds	0	405	222	On	201	40.2	100.5
M61832_s_at	Human S-adenosylhomocysteine hydrolase (AHCY) "mRNA," complete cds	0	233	129	On	71	14.2	36.6
M93661_at	Human set "gene," complete cds	0	294	213	On	169	31.8	79.6
X12671_ma1_at	himp a1 protein gene extracted from Human gene for heterogeneous nuclear ribonucleoprotein (hnRNP) core protein A1	0	716	384	On	594	118.8	297
X16183_at	Human mRNA for 90-kDa heat-shock protein	588	1891	1780	Increased	919	662.8	762.6
Y08614_at	Hsapiens mRNA for CRM1 protein	0	171	135	On	72	14.4	36
Z49140_s_at	Hsapiens mRNA for ribosomal protein L29	616	2589	1801	Increased	2303	953.4	1459.5
Z48601_s_at	Hsapiens mRNA for polyadenylate binding protein II. lgb-Z48601 htype=RNA	560	1988	2633	Increased	1263	700.6	911.5
H03076-HT3238_s_at	Heterogeneous Nuclear Ribonucleoprotein "K," ATL Splice 1	0	433	247	On	239	47.8	119.5
M36430_s_at	Human transducin beta-1 subunit "mRNA," 3' end	0	608	266	On	118	23.8	69
H0417-HT417_s_at	Cathepsin B	0	2797	1783	On	1172	234.4	686
J02683_s_at	Human ADP/ATP carrier protein "mRNA," complete cds	0	301	408	On	337	67.4	168.5

J04046_s_at	Human calmodulin "mRNA," complete cds	0	425	348	On	0	0	0
M28311_s_at	Human cyclo fibrils antigen mRNA, complete cds	0	2359	1413	On	15733	3146.6	7866.5
X13846_ma1_at	Human HMG-17 gene for non-histone chromosomal protein HMG-17.	208	740	1126	Increased	222	210.8	215
X64229_at	H.sapiens dek mRNA	0	198	288	On	60	10	26
X67326_at	H.sapiens p27 mRNA	0	358	883	On	0	0	0
L00205_at	Human K6b (epidermal keratin, type II) gene	80	0	0	Off	154	94.8	117
D10922_s_at	Human mRNA for FHL-2 related receptor (HMO3)	495	0	0	Off	28	401.2	260.6
D66643_s_at	Human spleen PABL (pseudautosomal boundary-like sequence) "mRNA," clone 8 p2. IgB-D66643 Intype-RNA	364	0	0	Off	0	291.2	182
L11672_at	Human Kruppel related zinc finger protein (HTF10) "mRNA," complete cds	3690	1770	1219	Decreased	376	3026	2030
M19378_at	Homo sapiens calbindin 27 gene, exons 1 and 2, and Alu repeat	365	0	0	Off	0	292	182.5
Z35402_ma1_s_at	H.sapiens gene encoding "E-cadherin," exon 3 and joined CDS	782	238	242	Decreased	169	841.4	460.5
M26665_at	Human histatin 2 (HIS2) mRNA, complete cds	210	0	0	Off	0	168	105
M96233_s_at	Human glutathione transferase class mu number 4 (GSTM4) "gene," complete cds	12618	0	0	Off	0	10014.4	6269
U31216_s_at	Human metabotropic glutamate receptor 1 alpha (mGluR1alpha) "mRNA," complete cds	317	0	0	Off	0	263.6	168.6
U33838_at	Human NF-kappa-B p85delta3 "mRNA," spliced transcript lacking exons 6 and 7, partial cds. IgB-U33838 Intype-RNA	478	0	0	Off	67	393.8	267.6
U79295_at	Human clone 23961 mRNA sequence	164	0	0	Off	0	131.2	82
U79304_at	Human clone 23908 "mRNA," partial cds.	99	0	0	Off	0	76.2	49.5
X79200_at	H.sapiens mRNA for SYT-35X, synovial sarcoma translocation junction	844	0	0	Off	0	676.2	422
X80763_s_at	H.sapiens gene for 6-HT2c receptor	889	0	0	Off	124	676	406.6
X90846_at	H.sapiens mRNA for mixed lineage kinase 2	2099	801	604	Decreased	0	1679.2	1049.6
H08880-HT880_at	Human mucin 6, gastric (single repeat clone) -human (fragment), partial CDS	1793	0	493	Decreased	0	1434.4	896.6
L08787_s_at	Human (clone L6) orphan G protein-coupled receptor "mRNA," complete cds	589	0	160	Decreased	109	493	348
M27749_r_at	Human immunoglobulin-related 14.1 protein "mRNA," complete cds	1119	0	0	Off	0	896.2	659.6
M29335_at	Human MHC class II DO-alpha mRNA, partial cds	1643	0	217	Decreased	0	834.4	621.6
X66087_at	H.sapiens a-myb mRNA	283	0	0	Off	0	234.4	146.6
X95632_s_at	H.sapiens mRNA for Arg protein tyrosine kinase-binding protein	261	0	0	Off	0	208.8	130.5

Only genes scored as present are shown. Deviation describes aberration from pool ~ 20% and 50% describes expected units of expression if tumor pool was added 20% or 50% bladder wall components. Genes in bold do not need interrogation of bladder wall contribution. Off, genes that are turned off. On, genes that are turned on.

Table 5

Expression pattern				>=3 fold ch.	>=5 fold ch.	>=7 fold ch.
N	↑	Ta	↑	T2-4	9	0
N	↑	Ta	→	T2-4	233	76
N	↑	Ta	↓	T2-4	164	51
N	→	Ta	↑	T2-4	612	262
N	→	Ta	→	T2-4	5407	6455
N	→	Ta	↓	T2-4	264	92
N	↓	Ta	↑	T2-4	175	49
N	↓	Ta	→	T2-4	206	87
N	↓	Ta	↓	T2-4	2	0

T.A. : 6

Gono Name	Positiv Negativ	Pairs	U Pairs	I Pos	Fract	Log Avg	Connective tissue A			Avg Diff	Abs Call
							PM	E	MM E	Pos/Neg	
hum_allu_at	68	0	69	69	67	0.99	4	0	Inf	6.27	10744 P
L05499_at	19	0	20	20	18	0.95	3	0	Inf	7.03	6064 P
AFHX-HUMGAPDH/M33197_3_at	18	0	20	20	18	0.90	1	0	Inf	5.85	5588 P
L10343_at	19	0	20	20	18	0.95	2	0	Inf	6.38	5388 P
D23660_at	19	0	20	20	18	0.95	3	0	Inf	7.89	5345 P
AFHX-HSAC07/X00351_M_at	20	0	20	20	18	1.00	0	0	Inf	6.41	5185 P
D88422_at	18	0	20	20	18	0.90	5	0	Inf	7.09	5167 P
HG3214-HT3391_at	19	0	20	20	18	0.95	3	0	Inf	6.77	4986 P
M21005_at	10	3	20	20	18	0.50	0	0.33		1.87	4930 P
HG2873-HT3017_at	19	0	20	20	18	0.95	4	0	Inf	7.24	4372 P
HG3364-HT3541_at	19	0	20	20	18	0.95	4	0	Inf	7.09	4242 P
HG3549-HT3751_at	20	0	20	20	18	1.00	2	0	Inf	6.49	3843 P
M17885_at	20	0	20	20	18	1.00	2	0	Inf	6.88	3690 P
AFHX-HSAC07/X00351_5_at	17	0	20	20	18	0.85	0	0	Inf	5.46	3657 P
HG1800-HT1823_at	18	0	20	20	18	0.90	1	0	Inf	4.94	3582 P
M17886_at	17	1	20	20	18	0.85	0	0	17.0	4.70	3488 P
AFHX-HUMGAPDH/M33197_M_at	18	0	20	20	18	0.90	0	0	Inf	5.29	3413 P
M18000_at	20	0	20	20	18	1.00	4	0	Inf	7.06	3315 P
M13934_cds2_at	17	0	20	20	18	0.85	1	0	Inf	5.00	3281 P
AFHX-HSAC07/X00351_3_at	18	1	20	20	18	0.90	0	0	18.0	5.15	3211 P
M11147_at	17	0	20	20	18	0.85	2	0	Inf	6.32	3172 P
L06505_at	14	0	20	20	18	0.70	0	0	Inf	4.09	3024 P
AFHX-CreX-3_at	20	0	20	20	17	1.00	1	0	Inf	6.01	3008 P
M17733_at	18	1	20	20	18	0.90	1	0	18.0	6.09	2774 P
D78361_at	17	1	20	20	18	0.85	0	0	17.0	4.91	2518 P
L38941_at	20	0	20	20	18	1.00	1	0	Inf	6.50	2460 P
D00017_at	18	0	20	20	18	0.90	0	0	Inf	4.24	2387 P
AFHX-CreX-5_at	19	0	20	20	18	0.95	0	0	Inf	5.22	2382 P
L14530_at	19	0	20	20	18	0.95	2	0	Inf	6.56	2193 P
L11821-HT821_at	18	0	20	20	18	0.90	0	0	Inf	5.13	2159 P
D38583_at	17	2	20	20	18	0.85	0	0.85		4.82	2101 P
HG33-HT33_at	18	0	20	20	18	0.90	1	0	Inf	5.87	2077 P
L19527_at	19	0	20	20	18	0.95	1	0	Inf	4.69	1991 P
HG4319-HT4589_at	18	0	20	20	18	0.90	0	0	Inf	5.82	1960 P
AFHX-HUMGAPDH/M33197_5_at	17	0	20	20	17	0.85	2	0	Inf	5.57	1939 P
HG613-HT613_at	18	0	20	20	17	0.90	1	0	Inf	5.59	1873 P
L20941_at	13	1	20	20	18	0.65	2	0	13.0	3.44	1771 P
M11353_at	15	2	20	20	18	0.75	4	0	7.5	5.61	1697 P
D79205_at	20	0	20	20	18	1.00	1	0	Inf	6.59	1639 P
AFHX-BioDn-3_at	12	2	20	20	17	0.60	0	0.60		2.53	1598 P
M21389_at	15	0	20	20	18	0.75	0	0	Inf	3.40	1572 P
D87735_at	17	0	20	20	18	0.85	1	0	Inf	4.85	1439 P
J03827_at	14	1	20	20	18	0.70	2	0	14.0	3.89	1439 P
HG384-HT384_at	12	0	20	20	18	0.60	3	0	Inf	4.02	1409 P
L11566_at	15	0	20	20	18	0.75	0	0	Inf	3.76	1399 P
HG4542-HT4947_at	12	1	20	20	18	0.60	0	0	12.0	4.06	1378 P
L26247_at	18	1	20	20	18	0.90	2	0	18.0	5.33	1375 P
D00654_at	19	0	20	20	18	0.95	0	0	Inf	4.77	1245 P

Side 1



Connective tissue A									
J00124_at	15	1	20	20	18.075	3.91	1	0.15.0	1210 P
D45370_at	14	1	20	20	17.070	2.56	0	0.14.0	1127 P
HG2279-HT2375_at	13	0	20	20	18.065	3.07	0	0 Inf	1112 P
M19283_at	17	2	20	20	18.085	3.74	2	1.8.5	1086 P
HG311-HT311_at	18	0	20	20	17.090	5.26	1	0 Inf	1067 P
M13903_at	13	0	20	20	18.065	2.57	0	0 Inf	1000 P
D14710_at	13	0	20	20	18.065	2.65	0	0 Inf	980 P
HG2780-HT2896_at	16	0	20	20	18.080	3.13	0	0 Inf	973 P
AC002115_cdsl_at	11	0	20	20	18.055	2.71	0	0 Inf	941 P
D85429_at	12	0	20	20	18.060	3.21	0	0 Inf	917 P
J03592_at	16	0	20	20	18.080	3.50	0	0 Inf	905 P
D50840_at	19	0	20	20	18.095	5.59	4	0 Inf	851 P
D26068_at	16	1	20	20	18.080	3.30	0	1.16.0	821 P
J03191_at	18	1	20	20	18.090	4.33	0	0.18.0	799 P
HG1153-HT1153_at	9	0	20	20	18.045	2.17	0	0 Inf	772 P
L24203_at	13	2	20	20	18.055	3.15	1	0.6.5	762 P
D13748_at	11	0	20	20	17.055	2.04	0	0 Inf	744 P
M19483_at	13	0	20	20	18.065	3.28	0	0 Inf	683 P
D16217_at	12	0	20	20	18.060	2.35	0	0 Inf	681 P
M15661_at	14	0	20	20	18.070	3.49	0	0 Inf	653 P
HG987-HT987_at	13	2	20	20	18.065	3.18	1	0.6.5	640 P
D21261_at	7	0	20	20	18.035	1.71	0	0 Inf	623 P
AB001325_at	9	0	20	20	18.045	1.47	0	0 Inf	621 P
L19686_ma1_at	9	2	20	20	18.045	2.22	0	0.4.5	612 P
D13118_at	11	0	20	20	18.055	2.52	0	0 Inf	611 P
D29012_at	11	1	20	20	18.055	2.02	0	0.11.0	600 P
L09604_at	10	0	20	20	18.050	2.05	0	0 Inf	588 P
M14200_ma1_at	10	0	20	20	18.050	1.94	0	0 Inf	584 P
L08666_at	14	0	20	20	18.070	3.59	2	0 Inf	581 P
D31883_at	12	1	20	20	18.060	2.66	0	0.12.0	567 P
D16562_at	15	1	20	20	18.075	3.68	0	0.15.0	564 P
D89667_at	12	0	20	20	18.060	3.01	0	0 Inf	561 P
J04823_ma1_at	13	1	20	20	18.065	2.14	0	0.13.0	559 P
D85815_at	11	2	20	20	18.055	2.36	0	0.5.5	558 P
D11428_at	12	1	20	20	18.060	2.29	0	0.12.0	557 P
D26308_at	12	1	20	20	18.060	1.97	0	0.12.0	554 P
Z26124_at	10	0	20	20	18.050	1.83	0	0 Inf	552 P
J01456_at	14	1	20	20	18.070	2.87	0	0.14.0	549 P
J04173_at	15	0	20	20	18.075	2.67	0	0 Inf	546 P
D87953_at	16	0	20	20	18.080	3.30	0	0 Inf	539 P
L19437_at	9	0	20	20	18.045	1.87	0	0 Inf	532 P
J04988_at	11	0	20	20	18.055	2.79	0	0 Inf	527 P
L38486_at	9	0	20	20	18.045	1.79	0	0 Inf	505 P
D87292_at	9	0	20	20	18.045	1.46	0	0 Inf	500 P
J02874_at	14	0	20	20	18.070	3.27	0	0 Inf	499 P
M19961_at	10	1	20	20	18.050	2.07	1	0.10.0	485 P
D00632_at	14	0	20	20	18.070	2.36	0	0 Inf	484 P
D38047_at	13	0	20	20	18.065	2.50	0	0 Inf	481 P
HG662-HT662_at	13	3	20	20	18.065	2.27	0	0.4.3	475 P
D14520_at	9	1	20	20	18.045	1.54	0	0.9.0	457 P

Side 2

## Connective tissue A

K02765_at	13	1	20	20	18 0.65	1.66	0	0	0 13.0	455 P
AFEX-BioDn-5_at	11	1	20	20	18 0.55	1.60	0	0	0 11.0	450 P
HG174-HT174_at	11	0	20	20	18 0.55	2.00	0	0	0 Inf	433 P
M16279_at	10	0	20	20	17 0.50	1.73	0	0	0 Inf	418 P
D23662_at	9	0	20	20	18 0.45	1.53	0	0	0 Inf	417 P
J02854_at	10	1	20	20	17 0.50	2.07	0	0	0 10.0	412 P
M18728_at	13	3	20	20	18 0.65	2.45	1	0	0 4.3	412 P
HG3494-HT3688_at	8	1	20	20	17 0.40	1.35	0	0	0 8.0	410 P
J04080_at	13	1	20	20	18 0.65	3.09	0	0	0 13.0	407 P
D38548_at	7	0	20	20	18 0.35	1.52	0	0	0 Inf	404 P
D86479_at	8	0	20	20	18 0.40	1.57	0	0	0 Inf	404 P
D31845_at	8	1	20	20	18 0.40	1.35	0	0	0 8.0	402 P
D63874_at	9	0	20	20	18 0.45	2.26	0	0	0 Inf	398 P
D14812_at	9	0	20	20	18 0.45	1.51	0	0	0 Inf	396 P
J03040_at	8	0	20	20	18 0.40	2.06	0	0	0 Inf	393 P
AFEX-HSAC07X00351_3_st	12	0	20	20	17 0.60	2.80	0	0	0 Inf	392 P
L27843_at	8	0	20	20	17 0.40	1.47	0	0	0 Inf	392 P
D30655_at	13	3	20	20	18 0.65	3.06	0	0	0 4.3	391 P
J02902_at	7	1	20	20	18 0.35	1.95	0	0	0 7.0	391 P
L12168_at	10	0	20	20	18 0.50	2.54	0	0	0 Inf	390 P
L10284_at	14	0	20	20	18 0.70	3.39	0	0	0 Inf	388 P
D26599_at	10	1	20	20	18 0.50	1.87	0	0	0 10.0	387 P
L76200_at	11	1	20	20	18 0.55	1.89	0	0	0 11.0	384 P
J03459_at	9	3	20	20	18 0.45	1.61	1	0	0 3.0	381 P
D90209_at	14	0	20	20	17 0.70	3.34	0	0	0 Inf	380 P
D25274_at	14	2	20	20	17 0.70	2.26	0	0	0 7.0	378 P
D26598_at	10	0	20	20	18 0.50	1.66	0	0	0 Inf	359 P
L19605_at	10	0	20	20	17 0.50	1.66	0	0	0 Inf	336 P
AFEX-BioC-5_at	10	1	20	20	18 0.50	1.64	0	0	0 10.0	333 P
D78151_at	10	0	20	20	18 0.50	1.81	0	0	0 Inf	319 P
AJ000480_at	8	1	20	20	18 0.40	1.70	0	0	0 8.0	314 P
D23673_at	11	2	20	20	17 0.55	1.79	0	0	0 5.5	312 P
L11370_at	10	0	20	20	18 0.50	1.98	0	0	0 Inf	311 P
D00761_at	10	0	20	20	18 0.50	1.77	0	0	0 Inf	310 P
L49169_at	10	0	20	20	18 0.50	1.99	1	0	0 Inf	306 P
D83779_at	9	1	20	20	17 0.45	1.49	1	0	0 9.0	304 P
D28416_at	7	1	20	20	18 0.35	2.07	1	0	0 7.0	301 P
D25218_at	13	2	20	20	18 0.65	2.88	2	0	0 6.5	300 P
D45248_at	8	0	20	20	18 0.40	1.62	0	0	0 Inf	300 P
J04611_at	7	1	20	20	18 0.35	1.48	0	0	0 7.0	295 P
D63475_at	12	1	20	20	18 0.60	1.95	0	0	0 12.0	290 P
L13391_at	12	0	20	20	18 0.60	3.00	0	0	0 Inf	288 P
L25080_at	11	0	20	20	18 0.55	1.47	0	0	0 Inf	284 P
HG1862-HT1897_at	10	2	20	20	18 0.50	1.72	0	0	0 5.0	281 P
AJ001421_at	7	0	20	20	18 0.35	1.05	0	0	0 Inf	276 P
K03195_at	14	1	20	20	18 0.70	3.33	3	0	0 14.0	274 P
L07633_at	12	1	20	20	17 0.60	2.38	0	0	0 12.0	270 P
D38048_at	10	0	20	20	18 0.50	2.40	0	0	0 Inf	264 P
L08246_at	10	2	20	20	18 0.50	1.76	1	0	0 5.0	260 P
AF005775_at	9	0	20	20	18 0.45	1.64	0	0	0 Inf	253 P

Side 3

Connective tissue A

D50310_at	9	1	20	20	18.045	1.79	0	0.90	247 P
HG1112-HT1112_at	11	1	20	20	18.055	1.83	0	0.11.0	244 P
L11285_at	9	2	20	20	18.045	1.67	0	0.4.5	244 P
D14689_at	8	2	20	20	18.040	1.35	0	0.4.0	242 P
D55654_at	10	1	20	20	18.050	2.28	0	0.10.0	242 P
D28423_at	9	1	20	20	17.045	2.26	0	0.9.0	241 P
D31765_at	8	1	20	20	18.040	2.07	1	0.8.0	240 P
HG2855-HT2995_at	8	2	20	20	18.040	1.95	0	0.4.0	240 P
M14058_at	10	1	20	20	18.050	2.37	0	0.10.0	240 P
D49400_at	9	2	20	20	17.045	1.66	1	1.4.5	239 P
D87258_at	8	1	20	20	18.040	1.46	0	0.8.0	238 P
D26129_at	7	0	20	20	17.035	1.17	0	0.1nf	237 P
L32977_at	13	1	20	20	18.065	2.73	0	0.13.0	237 P
D31767_at	8	2	20	20	17.040	1.33	0	0.4.0	236 P
D61380_at	10	2	20	20	18.050	1.67	0	0.5.0	231 P
D13988_at	10	0	20	20	18.050	1.33	0	0.1nf	228 P
AFFX-BioC-3_at	7	0	20	20	18.035	1.42	0	0.1nf	226 P
L76191_at	8	1	20	20	18.040	2.28	1	0.8.0	225 P
D42123_at	9	1	20	20	18.045	1.20	0	0.9.0	223 P
D11094_at	8	2	20	20	18.040	1.19	0	0.4.0	222 P
L25085_at	7	0	20	20	18.035	1.77	0	0.1nf	222 P
D29643_at	12	2	20	20	18.060	1.88	0	0.6.0	221 P
L11373_at	8	2	20	20	18.040	1.34	0	0.4.0	214 P
D17525_at	7	1	20	20	18.035	1.43	0	0.7.0	211 P
D21260_at	7	0	20	20	18.035	1.14	0	0.1nf	211 P
D28364_at	13	0	20	20	18.065	2.59	1	0.1nf	209 P
D63878_at	9	2	20	20	18.045	1.28	0	1.4.5	206 P
D78134_at	7	1	20	20	18.035	1.18	0	0.7.0	203 P
D38549_at	7	1	20	20	18.035	1.69	2	1.7.0	201 P
M14016_at	9	1	20	20	18.045	1.96	0	0.9.0	201 P
D21853_at	9	1	20	20	18.045	1.84	0	0.9.0	199 P
L40401_at	8	0	20	20	18.040	1.82	0	0.1nf	197 P
D63476_at	9	2	20	20	18.045	1.42	0	0.4.5	195 P
L40027_at	8	0	20	20	18.040	1.93	1	0.1nf	193 P
D00762_at	10	0	20	20	18.050	2.12	0	0.1nf	188 P
D17400_at	9	2	20	20	18.045	1.50	0	0.4.5	187 P
L03532_at	11	3	20	20	18.055	1.71	0	0.3.7	187 P
L08488_at	12	1	20	20	17.060	3.01	1	0.12.0	187 P
HG3895-HT4265_at	8	1	20	20	18.040	1.14	0	0.8.0	186 P
M11717_ma1_at	13	2	20	20	18.065	3.65	2	0.6.5	186 P
D13370_at	9	1	20	20	17.045	1.75	0	0.9.0	185 P
HG1116-HT1116_at	8	0	20	20	18.040	1.46	0	0.1nf	184 P
K03515_at	8	2	20	20	18.040	1.32	0	0.4.0	183 P
D17516_at	7	0	20	20	17.035	1.45	0	0.1nf	177 P
HG4272-HT4542_at	7	1	20	20	18.035	1.97	1	0.7.0	177 P
D28137_at	9	3	20	20	18.045	1.55	0	0.3.0	176 P
L22009_at	8	2	20	20	18.040	1.35	0	0.4.0	175 P
D44466_at	12	1	20	20	18.060	2.09	1	0.12.0	173 P
L29277_at	8	0	20	20	17.040	1.41	0	0.1nf	173 P
L00352_at	7	1	20	20	18.035	1.98	1	0.7.0	169 P

Side 4

## Connective tissue A

L34587_at	7	1	20	20	18.035	1.46	0	0.7.0	169 P
L37042_at	9	0	20	20	18.045	1.42	0	0 Inf	169 P
D86966_at	8	2	20	20	18.040	1.35	0	0.4.0	168 P
D15050_at	11	0	20	20	17.055	1.77	0	0 Inf	166 P
L10838_at	8	0	20	20	18.040	1.16	0	0 Inf	166 P
D14043_at	10	1	20	20	18.050	1.73	0	0 10.0	159 P
D87071_at	8	2	20	20	17.040	1.12	0	0.4.0	157 P
D42043_at	11	2	20	20	18.055	2.07	0	0 5.5	155 P
L38932_at	9	0	20	20	18.045	1.29	0	0 Inf	152 P
D90276_at	9	1	20	20	18.045	1.85	1	0 9.0	148 P
M13450_at	13	3	20	20	18.065	2.36	0	0 4.3	148 P
M11726_at	9	2	20	20	18.045	1.35	0	0 4.5	147 P
L41690_at	9	2	20	20	18.045	1.90	0	0 4.5	146 P
D43950_at	7	0	20	20	18.035	1.52	0	0 Inf	145 P
D63851_at	8	2	20	20	18.040	1.12	0	0.4.0	143 P
L19314_at	7	0	20	20	17.035	1.64	0	0 Inf	143 P
L41668_ma1_at	8	0	20	20	17.040	1.39	0	0 Inf	142 P
D83004_at	9	1	20	20	17.045	1.87	0	1 9.0	141 P
K02574_at	9	1	20	20	18.045	1.80	1	0 9.0	138 P
M13792_at	10	2	20	20	18.050	2.18	0	0 5.0	138 P
HG2415-HT2511_at	10	2	20	20	18.050	1.29	0	0 5.0	135 P
L20773_at	8	2	20	20	18.040	1.39	0	1 4.0	134 P
D10923_at	8	1	20	20	18.040	1.66	0	0 8.0	132 P
M12759_at	10	2	20	20	18.050	1.70	1	0 5.0	131 P
M16038_at	7	0	20	20	18.035	1.77	0	0 Inf	131 P
D86963_at	8	1	20	20	18.040	1.52	0	0 8.0	128 P
J05249_at	10	0	20	20	17.050	2.26	0	0 Inf	128 P
D90084_at	7	1	20	20	18.035	1.11	0	0 7.0	124 P
AF007875_at	8	1	20	20	18.040	1.33	0	0 8.0	123 P
D00726_at	7	0	20	20	18.035	1.62	0	0 Inf	123 P
J05243_at	9	0	20	20	18.045	1.62	0	0 Inf	122 P
L13761_ma1_at	7	0	20	20	18.035	1.52	0	0 Inf	119 P
L38951_at	10	0	20	20	18.050	1.86	0	0 Inf	119 P
M18533_at	12	2	20	20	18.060	3.76	4	0 6.0	119 P
J04605_at	7	1	20	20	18.035	1.22	0	0 7.0	117 P
D38553_at	7	0	20	20	18.035	1.48	0	0 Inf	116 P
L36531_at	7	2	20	20	18.035	1.46	1	0 3.5	116 P
L14837_at	9	2	20	20	18.045	2.20	2	0 4.5	113 P
HG4102-HT4372_at	7	1	20	20	18.035	1.12	0	0 7.0	109 P
L40395_at	8	2	20	20	18.040	1.38	0	0.4.0	107 P
D30756_at	8	1	20	20	18.040	2.06	2	0 8.0	106 P
L47738_at	8	0	20	20	17.040	0.90	0	0 Inf	105 P
D13841_at	9	1	20	20	18.045	1.05	0	0 9.0	104 P
D45399_at	9	3	20	20	18.045	1.65	0	0 3.0	104 P
L27706_at	12	2	20	20	18.060	1.93	0	0 6.0	104 P
D50683_at	9	3	20	20	18.045	1.47	0	0 3.0	100 P
HG2167-HT2237_at	9	1	20	20	18.045	1.19	0	0 9.0	99 P
D29641_at	7	1	20	20	18.035	1.43	0	0 7.0	98 P
L13977_at	7	1	20	20	18.035	1.58	1	0 7.0	97 P
L34600_at	7	0	20	20	18.035	1.05	0	0 Inf	95 P

Side 5

Connective tissue A									
D42053_at	8	1	20	20	18 0.40	1.47	0	0.80	94 P
M14123_xp12_at	9	3	20	20	18 0.45	1.36	1	0.30	93 P
D14658_at	7	1	20	20	18 0.35	0.92	0	0.70	92 P
L27841_at	8	2	20	20	18 0.40	1.00	0	0.40	92 P
AF010193_at	7	1	20	20	18 0.35	1.07	0	0.70	91 P
D50926_at	11	2	20	20	18 0.55	1.24	0	0.55	90 P
M11321_at	10	1	20	20	18 0.50	1.35	0	0.100	90 P
HG1102-HT1102_at	7	1	20	20	18 0.35	1.68	1	0.70	89 P
L40393_at	12	2	20	20	17 0.60	2.43	0	0.60	89 P
D80003_at	9	1	20	20	18 0.45	1.59	1	0.90	86 P
M14219_at	10	1	20	20	18 0.50	1.99	1	0.100	86 P
M14539_at	7	0	20	20	18 0.35	0.98	0	0.100	86 P
M13699_at	9	3	20	20	18 0.45	2.24	1	0.30	85 P
L19711_at	8	0	20	20	18 0.40	1.67	0	0.100	84 P
L76703_at	9	2	20	20	18 0.45	2.08	1	0.45	84 P
D63390_at	10	1	20	20	18 0.50	2.52	2	0.100	82 P
HG831-HT831_at	9	2	20	20	18 0.45	1.31	1	0.45	78 P
D21255_at	9	1	20	20	18 0.45	1.63	1	0.90	77 P
D78129_at	9	3	20	20	18 0.45	1.60	1	0.30	77 P
L48513_at	13	3	20	20	18 0.55	1.87	1	1.43	77 P
M14636_at	9	3	20	20	18 0.45	1.62	1	2.30	73 P
M15796_at	7	2	20	20	18 0.35	1.66	0	0.35	73 P
HG1103-HT1103_at	9	2	20	20	18 0.45	1.51	1	0.45	71 P
L35240_at	7	1	20	20	18 0.35	1.02	0	0.70	67 P
L77886_at	9	3	20	20	17 0.45	2.27	2	0.30	59 P
D14659_at	9	3	20	20	18 0.45	1.61	1	0.30	54 P
J04156_at	8	2	20	20	18 0.40	1.23	1	0.40	54 P
D87457_at	8	2	20	20	18 0.40	2.72	4	0.40	48 P
L20321_at	7	1	20	20	18 0.35	0.92	1	0.70	32 P
L20814_at	9	3	20	20	18 0.45	1.61	1	1.30	28 P

Connective tissue B											
Gene	Nam	Positive	Negative	Pairs	Pairs	User	Pairs	InAv	Pos	Fractl	Log Avg
hum_alu_a	69	0	0	69	69	67	1.00	7.19	12	0	Inf
U4692_in	19	0	0	20	20	18	0.95	7.15	3	0	Inf
AFHX-HUN	18	0	0	20	20	18	0.90	6.05	0	0	Inf
AFHX-HSA	20	0	0	20	20	18	1.00	6.50	0	0	Inf
U14969_at	20	0	0	20	20	18	1.00	6.79	0	0	Inf
M60854_at	19	1	0	20	20	18	0.95	6.50	2	0	19.0
AFHX-Cre	19	0	0	20	20	18	0.95	7.67	3	0	Inf
M81757_at	18	0	0	20	20	18	0.90	6.62	2	0	Inf
U14973_at	19	0	0	20	20	18	0.95	6.06	1	0	Inf
AFHX-HSA	19	0	0	20	20	18	0.95	6.11	1	0	Inf
U14970_at	19	0	0	20	20	18	0.95	6.15	2	0	Inf
U14968_at	18	0	0	20	20	18	0.90	7.18	3	0	Inf
U14972_at	17	0	0	20	20	18	0.85	5.60	2	0	Inf
M84711_at	17	1	0	20	20	18	0.85	7.59	5	1	17.0
AFHX-HUN	17	0	0	20	20	18	0.85	5.08	0	0	Inf
M24194_at	19	0	0	20	20	18	0.95	5.69	0	0	Inf
U12465_at	19	0	0	20	20	18	0.95	6.01	0	0	Inf
M64716_at	17	2	0	20	20	18	0.85	5.15	3	0	8.5
S79522_at	19	0	0	20	20	18	0.95	6.42	4	0	Inf
AFHX-Cre	19	0	0	20	20	18	0.95	6.86	1	0	Inf
AFHX-HSA	18	0	0	20	20	17	0.90	5.87	0	0	Inf
AFHX-HUN	17	0	0	20	20	18	0.85	5.95	4	0	Inf
U14971_at	18	0	0	20	20	18	0.90	5.27	1	0	Inf
M77232_at	20	0	0	20	20	18	1.00	7.99	6	0	Inf
M94856_at	18	0	0	20	20	18	0.80	8.28	10	0	Inf
U12404_at	20	0	0	20	20	18	1.00	6.67	2	0	Inf
U09953_at	18	1	0	20	20	18	0.90	6.77	3	0	18.0
M32053_at	20	0	0	20	20	18	1.00	6.29	0	0	Inf
U58682_at	15	1	0	20	20	18	0.75	4.14	1	0	15.0
U49869_in	18	0	0	20	20	17	0.90	5.83	2	0	Inf
M32405_at	13	2	0	20	20	17	0.65	3.40	1	0	6.5
M31520_at	20	0	0	20	20	18	1.00	6.23	4	0	Inf
M84526_at	14	1	0	20	20	18	0.70	3.38	0	0	14.0
M38591_at	19	0	0	20	20	18	0.95	6.10	3	0	Inf
M95787_at	17	0	0	20	20	18	0.85	4.53	1	0	Inf
M97815_at	17	0	0	20	20	18	0.85	4.05	0	0	Inf
M86400_at	18	0	0	20	20	18	0.90	5.75	3	0	Inf
AFHX-BioC	16	2	0	20	20	17	0.80	3.26	0	0	8.0
M26880_at	16	0	0	20	20	18	0.80	7.17	9	0	Inf
M63138_at	12	1	0	20	20	18	0.60	2.92	0	0	12.0
M57710_at	18	1	0	20	20	18	0.90	6.45	2	1	18.0
M23613_at	17	1	0	20	20	18	0.85	5.57	4	0	17.0
M33680_at	15	0	0	20	20	18	0.75	3.69	1	0	Inf
M27891_at	14	0	0	20	20	18	0.70	3.55	0	0	Inf
S81914_at	18	0	0	20	20	18	0.90	5.75	1	0	Inf
U25789_at	16	0	0	20	20	18	0.80	5.97	2	0	Inf
M74542_at	14	1	0	20	20	18	0.75	3.88	0	0	14.0
M38690_at	15	1	0	20	20	18	0.75	3.97	0	0	15.0
S65738_at	16	1	0	20	20	18	0.80	5.75	0	0	16.0
M34182_at	7	2	0	20	20	18	0.35	1.43	0	0	3.5

Side 1

## Connective tissue B

92934_at	16	1	20	20	20	18.080	4.82	0	0	0.16.0	898 P
33379_at	16	0	20	20	20	18.080	3.59	0	0	0 Inf	891 P
M50047_at	17	0	20	20	20	18.085	4.42	1	0	0 Inf	847 P
U17077_at	15	0	20	20	20	18.075	3.94	1	0	0 Inf	841 P
M76378_at	13	0	20	20	20	18.065	4.01	0	0	0 Inf	839 P
M93056_at	14	0	20	20	20	18.070	4.58	1	0	0 Inf	834 P
U15008_at	15	0	20	20	20	17.075	3.48	1	0	0 Inf	816 P
M84332_at	12	1	20	20	20	18.060	2.32	0	0	0.12.0	767 P
M69043_at	14	1	20	20	20	18.070	4.12	1	0	0.14.0	748 P
U32944_at	15	1	20	20	20	17.075	4.21	2	0	0.15.0	743 P
M55593_at	12	1	20	20	20	18.060	2.46	0	0	0.12.0	739 P
U09813_at	15	0	20	20	20	18.075	4.39	0	0	0 Inf	715 P
M98447_at	10	0	20	20	20	18.050	2.31	0	0	0 Inf	705 P
U41635_at	13	0	20	20	20	18.065	1.97	0	0	0 Inf	702 P
U51478_at	15	1	20	20	20	18.075	4.39	0	0	0.15.0	691 P
M86849_at	13	1	20	20	20	18.065	4.24	1	0	0.13.0	675 P
U04313_at	14	0	20	20	20	18.070	3.59	0	0	0 Inf	667 P
U48959_at	14	1	20	20	20	18.070	3.07	1	0	0.14.0	621 P
U46751_at	13	1	20	20	20	18.065	3.61	0	0	0.13.0	619 P
S77356_at	12	2	20	20	20	18.060	3.32	1	0	0.6.0	579 P
M23254_at	15	1	20	20	20	18.075	3.68	0	0	0.15.0	574 P
U44839_at	9	2	20	20	20	18.045	1.35	0	0	0.4.5	566 P
M62981_at	13	2	20	20	20	18.065	3.06	0	0	0.6.5	561 P
M88468_at	8	2	20	20	20	18.040	0.98	0	0	0.4.0	538 P
U21128_at	11	3	20	20	20	18.055	3.45	2	0	0.3.7	510 P
U50523_at	12	2	20	20	20	18.060	2.95	0	0	0.6.0	510 P
U30255_at	11	0	20	20	20	17.055	2.64	0	0	0 Inf	503 P
M60858_at	16	0	20	20	20	18.080	3.50	1	0	0 Inf	501 P
U37690_at	10	0	20	20	20	18.050	2.08	0	0	0 Inf	499 P
S45630_at	11	0	20	20	20	18.055	1.86	0	0	0 Inf	495 P
M98539_at	13	2	20	20	20	18.065	2.84	0	0	0.6.5	489 P
S75463_at	10	1	20	20	20	18.050	1.71	0	0	0.10.0	484 P
M29540_at	15	2	20	20	20	18.075	3.86	0	0	0.7.5	483 P
M80563_at	13	0	20	20	20	18.065	2.43	0	0	0 Inf	482 P
M22538_at	13	0	20	20	20	18.065	2.32	0	0	0 Inf	468 P
M75126_at	11	0	20	20	20	18.055	2.14	0	0	0 Inf	444 P
U56637_at	12	0	20	20	20	18.060	2.95	0	0	0 Inf	442 P
U46499_at	14	1	20	20	20	17.070	3.14	0	0	0.14.0	437 P
U12779_at	7	0	20	20	20	18.035	1.00	0	0	0 Inf	434 P
U51004_at	13	1	20	20	20	18.065	2.57	0	0	0.13.0	433 P
U11861_at	8	1	20	20	20	18.040	1.49	0	0	0.8.0	432 P
U03057_at	12	0	20	20	20	17.060	2.03	0	0	0 Inf	430 P
M96739_at	7	1	20	20	20	18.035	1.37	0	0	0.7.0	429 P
M22760_at	13	0	20	20	20	18.065	3.54	0	0	0 Inf	426 P
U62962_at	8	0	20	20	20	18.040	1.65	0	0	0 Inf	410 P
AFFX-BioC	12	2	20	20	20	18.060	1.72	0	0	0.6.0	400 P
S73591_at	13	2	20	20	20	18.065	2.35	0	0	0.6.5	392 P
M63391_at	8	1	20	20	20	18.040	1.61	0	0	0.8.0	391 P
M88338_at	11	2	20	20	20	18.055	1.48	0	0	0.5.5	389 P
M76482_at	14	3	20	20	20	18.070	2.79	0	0	0.4.7	382 P
M22382_at	13	0	20	20	20	18.065	2.59	0	0	0 Inf	377 P
M22490_at	8	1	20	20	20	18.040	1.47	0	0	0.8.0	

Side 2

Connective tissue B									
M57567_al	9	1	20	20	18 0.45	1.77	0	0.9.0	377 P
U15932_al	14	1	20	20	18 0.70	3.10	0	1 14.0	375 P
AFFX-HSA	12	0	20	20	17 0.60	2.29	0	0 Inf	374 P
S74017_al	15	2	20	20	18 0.75	2.72	0	0 7.5	372 P
M74491_al	12	0	20	20	18 0.60	2.09	0	0 Inf	363 P
U37519_al	11	1	20	20	18 0.55	2.22	0	0 11.0	358 P
U29064_al	15	1	20	20	18 0.75	3.51	1	1 15.0	353 P
U62402_al	9	0	20	20	18 0.45	1.99	0	0 Inf	350 P
U29953_m	12	0	20	20	18 0.60	2.67	0	0 Inf	349 P
U46025_al	11	0	20	20	18 0.55	1.97	0	0 Inf	349 P
U46570_al	9	1	20	20	18 0.45	1.53	0	0.9.0	347 P
S73149_al	8	0	20	20	18 0.40	1.20	0	0 Inf	346 P
U33821_al	10	1	20	20	18 0.50	1.94	0	0 10.0	346 P
U09117_al	8	2	20	20	18 0.40	1.33	0	0.4.0	344 P
AFFX-BloC	15	2	20	20	18 0.75	2.38	0	0 7.5	340 P
M37104_al	17	0	20	20	18 0.85	3.43	2	0 Inf	338 P
M59815_al	10	2	20	20	17 0.50	2.14	0	0.5.0	337 P
M75099_al	9	1	20	20	18 0.45	1.69	0	0.9.0	331 P
U07857_al	17	1	20	20	17 0.85	3.44	0	0 17.0	330 P
M28209_al	13	0	20	20	18 0.65	2.74	0	0 Inf	321 P
U02020_al	15	2	20	20	18 0.75	3.40	0	0 7.5	315 P
M31525_al	10	3	20	20	18 0.50	1.92	0	0.3.3	314 P
M60278_al	9	2	20	20	18 0.45	2.06	0	0.4.5	308 P
M83751_al	13	0	20	20	18 0.65	2.21	0	0 Inf	307 P
M63167_al	10	1	20	20	17 0.50	1.51	0	0 10.0	306 P
U15085_al	13	0	20	20	18 0.65	2.34	0	0 Inf	306 P
M55621_al	12	0	20	20	17 0.60	2.65	0	0 Inf	304 P
S72487_al	8	0	20	20	18 0.40	1.71	0	0 Inf	301 P
U00968_al	10	0	20	20	18 0.50	1.12	0	0 Inf	301 P
M94630_al	9	2	20	20	18 0.45	1.31	1	0.4.5	290 P
M59465_al	11	2	20	20	18 0.55	2.68	2	0.5.5	289 P
M37583_al	13	1	20	20	18 0.65	3.67	1	0 13.0	288 P
M84349_al	11	1	20	20	17 0.55	2.58	0	0 11.0	286 P
M99701_al	13	1	20	20	18 0.65	2.72	1	0 13.0	282 P
U37122_al	10	1	20	20	17 0.50	1.95	1	0 10.0	282 P
U57342_al	7	0	20	20	18 0.35	1.06	0	0 Inf	281 P
M34079_al	9	3	20	20	17 0.45	1.53	0	0.3.0	280 P
S68616_al	8	2	20	20	18 0.40	1.35	0	0.4.0	279 P
M69066_al	14	2	20	20	17 0.70	3.20	0	0.7.0	276 P
M88279_al	11	0	20	20	18 0.55	2.06	0	0 Inf	276 P
M31013_al	12	2	20	20	18 0.60	2.13	0	0.6.0	274 P
M94345_al	11	1	20	20	18 0.55	1.77	0	0 11.0	274 P
U37689_al	8	0	20	20	18 0.40	1.35	0	0 Inf	269 P
U41515_al	11	1	20	20	18 0.55	2.31	0	0 11.0	269 P
M37984_r	8	2	20	20	18 0.40	1.43	0	0.4.0	267 P
M88458_al	12	0	20	20	18 0.60	1.93	0	0 Inf	265 P
U02570_al	11	1	20	20	18 0.55	2.26	1	0 11.0	263 P
M68864_al	9	1	20	20	18 0.45	2.10	0	0.9.0	260 P
M31894_al	11	1	20	20	18 0.55	2.60	0	0 11.0	257 P
M35878_al	10	2	20	20	18 0.50	1.55	0	1.5.0	255 P
U62015_al	8	0	20	20	18 0.40	1.58	0	0 Inf	253 P
U44755_al	7	1	20	20	18 0.35	1.45	0	0.7.0	250 P

Side 3



Connective tissue B									
M80244_al	9	1	20	20	17.045	1.50	0	0.90	249 P
U02493_al	9	1	20	20	18.045	2.04	0	0.90	247 P
M29696_al	8	1	20	20	18.040	1.21	0	0.80	246 P
M73720_al	12	0	20	20	17.060	2.59	0	0.1nf	246 P
U09579_al	9	2	20	20	18.045	2.07	1	0.45	242 P
M92303_al	7	2	20	20	18.035	1.41	0	0.35	240 P
U20285_al	7	1	20	20	18.035	1.80	0	0.70	240 P
U50733_al	9	1	20	20	18.045	1.93	0	0.90	239 P
M29536_al	13	2	20	20	18.065	2.11	0	0.65	238 P
M63483_al	11	3	20	20	18.055	1.75	0	0.37	238 P
M83186_al	10	3	20	20	18.050	1.97	0	0.33	238 P
U40391_fm	9	1	20	20	18.045	1.50	0	0.90	237 P
M86667_al	13	0	20	20	18.065	3.08	1	0.1nf	233 P
S53911_al	11	2	20	20	17.055	1.84	0	0.55	233 P
AFFX-B10C	10	1	20	20	18.050	1.81	0	0.100	232 P
M33308_al	13	0	20	20	18.065	3.20	1	0.1nf	231 P
S83364_al	9	1	20	20	18.045	2.20	0	0.90	231 P
U06863_al	7	0	20	20	18.035	1.14	0	0.1nf	230 P
M37033_al	11	3	20	20	18.055	1.97	1	0.37	229 P
U21931_al	9	2	20	20	18.045	1.55	0	0.45	229 P
M36341_al	13	1	20	20	17.065	2.63	0	0.130	225 P
M55040_al	8	2	20	20	18.040	1.18	0	0.40	225 P
M80254_al	8	1	20	20	18.040	1.69	0	0.80	223 P
M5763_al	7	2	20	20	18.035	1.35	0	0.35	222 P
M83088_al	8	2	20	20	18.040	1.71	0	0.40	221 P
M33336_al	16	1	20	20	18.080	2.70	0	0.160	217 P
M58028_al	9	1	20	20	18.045	1.46	0	0.90	213 P
M63573_al	11	2	20	20	18.055	2.70	0	0.55	213 P
U63541_al	11	2	20	20	18.055	1.87	0	0.55	213 P
U24105_al	9	0	20	20	18.045	1.86	0	0.1nf	212 P
M64992_al	10	1	20	20	17.050	2.15	1	0.100	210 P
U38846_al	12	1	20	20	18.060	1.89	0	0.120	209 P
U40282_al	11	3	20	20	18.055	1.59	0	0.37	208 P
M26576_al	7	2	20	20	18.035	1.40	0	0.35	207 P
S77812_al	9	2	20	20	18.045	1.80	0	0.45	206 P
U30825_al	10	2	20	20	17.050	2.18	0	0.50	206 P
M33552_al	9	1	20	20	18.045	1.19	0	0.90	205 P
U52112_fm	9	1	20	20	18.045	1.97	1	0.90	205 P
M58603_al	12	2	20	20	17.060	2.77	2	0.60	202 P
S82240_al	12	1	20	20	18.060	3.55	2	0.120	201 P
M86528_al	7	1	20	20	18.035	1.20	0	0.70	200 P
M22632_al	9	1	20	20	18.045	1.38	0	0.90	199 P
M81601_al	11	2	20	20	18.055	1.77	0	0.55	199 P
M94556_al	12	1	20	20	18.060	2.15	0	0.120	199 P
M37435_al	7	1	20	20	18.035	1.74	0	0.70	197 P
M64098_al	11	2	20	20	18.055	2.31	0	0.55	197 P
U20998_al	8	2	20	20	18.040	2.68	1	0.40	196 P
U36764_al	14	1	20	20	17.070	3.29	0	0.140	196 P
U12255_al	8	1	20	20	18.040	1.73	0	0.80	195 P
U54778_al	8	1	20	20	18.040	1.23	0	0.80	195 P
M69039_al	14	2	20	20	17.070	2.86	0	0.70	184 P
M24902_al	11	0	20	20	18.055	2.34	0	0.1nf	193 P

Side 4

Connective tissue B									
U52100_al	12	0	20	20	18.060	2.09	0	0 Inf	192 P
U03100_al	12	3	20	20	18.060	2.40	0	0.40	189 P
M64347_al	10	2	20	20	18.050	1.08	0	0.50	186 P
M81780_c	7	0	20	20	18.035	1.01	0	0 Inf	186 P
M29877_al	10	1	20	20	18.050	1.51	0	1.10.0	181 P
M62831_al	9	0	20	20	18.045	1.63	0	0 Inf	180 P
U49785_al	12	0	20	20	18.060	1.76	1	0 Inf	178 P
M31627_al	12	2	20	20	18.060	1.96	0	0.60	177 P
U07424_al	10	3	20	20	18.050	1.50	0	0.33	177 P
M89473_al	8	2	20	20	18.040	1.03	0	0.40	174 P
U52101_al	7	1	20	20	18.035	1.22	0	0.70	174 P
U03688_al	10	2	20	20	18.050	2.96	0	0.50	172 P
U57877_al	8	2	20	20	18.040	1.73	0	0.40	173 P
M23114_al	14	1	20	20	18.040	1.10	0	0.40	169 P
M73547_al	10	3	20	20	17.070	2.87	1	0.14.0	167 P
U21049_al	7	0	20	20	18.050	1.38	0	0.33	165 P
S67325_al	8	1	20	20	18.035	0.95	0	0 Inf	165 P
U18009_al	10	2	20	20	18.040	1.24	0	0.80	163 P
U50330_al	8	1	20	20	18.050	1.86	0	0.50	163 P
U51678_al	12	2	20	20	18.040	1.22	0	0.80	163 P
U24166_al	12	1	20	20	18.060	1.84	0	0.60	160 P
U34962_al	10	2	20	20	18.060	2.02	0	0.12.0	158 P
M57399_al	9	3	20	20	18.050	1.26	0	0.50	152 P
U53476_al	7	1	20	20	18.045	1.33	0	0.30	150 P
M24470_al	8	1	20	20	18.035	1.13	0	0.70	150 P
M29927_al	8	0	20	20	17.040	1.20	0	0.80	148 P
U51711_al	9	1	20	20	17.045	1.33	0	0 Inf	147 P
M34057_al	10	3	20	20	18.050	1.67	0	0.90	146 P
U43286_al	10	3	20	20	18.050	2.37	1	0.33	145 P
U53445_al	14	1	20	20	17.070	1.61	0	1.33	143 P
S65583_rn	9	3	20	20	18.045	3.30	1	0.14.0	143 P
M86546_al	10	1	20	20	17.050	1.46	1	0.30	141 P
U31384_al	9	1	20	20	18.045	1.83	1	0.10.0	140 P
M63175_al	8	2	20	20	18.040	1.49	0	0.90	139 P
M93283_al	10	2	20	20	17.050	1.39	0	0.40	138 P
U30888_al	8	2	20	20	18.040	1.46	0	0.50	138 P
U47101_al	9	0	20	20	18.045	1.54	0	0.40	138 P
M97287_al	8	2	20	20	18.040	1.92	0	0 Inf	138 P
AFEX-M27	9	0	20	20	18.045	1.29	1	2.40	137 P
U51240_al	7	1	20	20	18.035	2.11	0	0 Inf	136 P
U49070_al	8	0	20	20	18.045	1.11	0	0.70	136 P
M33195_al	9	1	20	20	18.040	1.08	0	0 Inf	135 P
M59830_al	11	3	20	20	18.045	1.29	0	0.90	133 P
U07802_al	10	2	20	20	18.055	1.45	1	0.37	133 P
U39317_al	7	2	20	20	17.050	1.85	0	0.50	133 P
U61374_al	9	1	20	20	18.035	2.00	1	0.35	132 P
M98776_rr	9	1	20	20	18.045	1.43	0	0.90	132 P
M22877_al	14	1	20	20	18.045	1.12	0	0.90	130 P
M91036_rr	7	1	20	20	17.070	2.26	1	0.14.0	129 P
S77763_al	9	2	20	20	18.035	0.98	0	0.70	128 P
U58334_al	7	0	20	20	18.045	1.34	0	0.45	126 P
			20	20	17.035	0.92	0	0 Inf	125 P

Side 5

Connective tissue B									
M64929_at	10	1	20	20	18 0.50	2.14	1	0 10.0	124 P
S72008_at	10	0	20	20	17 0.50	2.43	1	0 Inf	124 P
M35416_at	9	3	20	20	18 0.45	1.39	0	0.30	122 P
M37721_at	12	3	20	20	18 0.60	2.38	0	0.40	122 P
M55671_at	8	1	20	20	18 0.40	1.97	1	0.80	122 P
M27492_at	9	1	20	20	18 0.45	1.71	1	0.90	121 P
U52969_at	7	1	20	20	18 0.35	1.15	0	0.70	118 P
M55542_at	13	2	20	20	18 0.65	3.06	3	0.6.5	117 P
S81419_at	8	1	20	20	18 0.40	1.23	0	0.80	117 P
U01147_at	8	1	20	20	18 0.40	1.42	0	0.80	116 P
U10439_at	8	1	20	20	18 0.40	1.89	0	0.80	116 P
M59916_at	8	2	20	20	18 0.40	1.19	0	0.40	115 P
U24152_at	8	2	20	20	18 0.40	1.26	0	0.40	115 P
M74524_at	7	0	20	20	18 0.35	2.07	1	0 Inf	114 P
M83738_at	8	2	20	20	18 0.40	1.98	1	0.40	114 P
S43646_at	7	2	20	20	18 0.35	1.31	0	0.35	114 P
U00952_at	9	2	20	20	18 0.45	1.64	1	0.4.5	114 P
U09770_at	8	1	20	20	17 0.40	1.08	0	0.80	114 P
U15782_at	7	1	20	20	18 0.35	1.66	0	0.70	114 P
U40369_at	9	1	20	20	18 0.45	1.88	1	0.90	113 P
M23197_at	9	0	20	20	18 0.45	1.35	0	0 Inf	111 P
U14193_at	8	2	20	20	17 0.40	1.13	0	0.40	109 P
U37518_at	7	2	20	20	18 0.35	1.69	0	0.3.5	109 P
U02082_at	11	0	20	20	18 0.55	1.54	0	0 Inf	108 P
U47742_at	9	2	20	20	18 0.45	1.57	1	0.4.5	108 P
U50553_at	8	0	20	20	18 0.40	1.20	0	0 Inf	108 P
U51925_at	9	1	20	20	18 0.45	2.12	0	0.90	106 P
U25171_at	8	1	20	20	17 0.40	1.16	0	0.80	104 P
M63603_at	10	2	20	20	18 0.50	1.51	0	1.50	103 P
U07358_at	9	2	20	20	18 0.45	1.51	1	0.4.5	103 P
U16031_at	9	3	20	20	18 0.45	1.50	1	0.30	103 P
S83366_at	9	2	20	20	18 0.45	1.76	0	0.4.5	101 P
M80482_at	7	1	20	20	18 0.35	1.34	0	0.70	100 P
M96803_at	7	1	20	20	18 0.35	1.49	1	0.70	99 P
S77415_at	9	2	20	20	18 0.45	2.53	2	0.4.5	96 P
M30894_at	8	0	20	20	18 0.40	1.47	0	0 Inf	95 P
S71018_at	7	0	20	20	18 0.35	1.12	0	0 Inf	95 P
U13695_at	11	0	20	20	18 0.55	2.52	0	0 Inf	95 P
U39400_at	10	3	20	20	18 0.50	1.61	0	0.3.3	95 P
M77698_at	9	3	20	20	18 0.45	1.45	1	0.30	94 P
U37251_at	10	1	20	20	18 0.50	2.32	1	0 10.0	92 P
M90596_at	10	2	20	20	18 0.50	1.61	1	0.50	91 P
U28386_at	9	3	20	20	18 0.45	1.71	3	1.30	89 P
U08989_at	9	0	20	20	18 0.45	2.73	2	0 Inf	88 P
S67156_at	8	0	20	20	18 0.40	1.84	0	0 Inf	86 P
U28686_at	9	1	20	20	18 0.45	1.70	0	1.90	85 P
U35048_at	10	1	20	20	17 0.50	2.17	1	0 10.0	83 P
M30269_at	7	2	20	20	18 0.35	2.00	2	0.3.5	82 P
M34309_at	9	3	20	20	18 0.45	1.72	1	0.30	82 P
M37197_at	10	2	20	20	18 0.50	1.60	0	0.50	82 P
U45976_at	11	1	20	20	18 0.55	2.70	0	0 11.0	80 P
S80562_at	9	2	20	20	18 0.45	2.06	1	1.4.5	77 P

Side 6

Connective tissue B									
U33818_al	9	1	20	20	18.045	0.99	0	1.9.0	77 P
M22995_al	9	0	20	20	18.045	1.52	0	0 Inf	76 P
U14747_al	8	2	20	20	18.040	1.09	0	0.4.0	76 P
M81118_al	9	3	20	20	18.045	1.52	2	1.3.0	75 P
M28983_al	7	2	20	20	18.035	1.30	1	0.3.5	74 P
M65217_al	9	3	20	20	18.045	2.24	2	0.3.0	72 P
M37825_al	10	3	20	20	18.050	1.50	0	0.3.3	70 P
M54992_al	10	3	20	20	18.050	1.38	0	0.3.3	70 P
U10117_al	9	3	20	20	18.045	1.52	1	0.3.0	70 P
U12471_al	7	2	20	20	18.035	1.55	0	0.3.5	70 P
U18242_al	9	2	20	20	18.045	2.09	0	0.4.5	70 P
U26032_al	9	3	20	20	18.045	1.63	1	0.3.0	70 P
M32886_al	10	2	20	20	17.050	0.94	0	0.5.0	66 P
U18291_al	9	2	20	20	18.045	2.25	1	0.4.5	66 P
S76985_al	8	2	20	20	18.040	1.70	2	0.4.0	65 P
U23070_al	9	3	20	20	18.045	1.44	2	0.3.0	65 P
M81379_al	7	1	20	20	18.035	1.05	0	0.7.0	63 P
U49436_al	10	2	20	20	18.050	2.41	2	0.5.0	63 P
M25393_al	9	3	20	20	18.045	1.61	1	1.3.0	62 P
M88579_al	9	3	20	20	18.045	1.74	2	0.3.0	62 P
M62397_al	9	2	20	20	18.045	1.92	1	0.4.5	60 P
M63623_al	7	2	20	20	18.035	1.40	0	0.3.5	57 P
U23942_al	7	0	20	20	18.035	1.40	0	0 Inf	56 P
U18062_al	8	1	20	20	18.040	1.83	1	0.8.0	50 P
S67798_al	8	2	20	20	18.040	1.33	0	0.4.0	49 P
M74093_al	8	2	20	20	18.040	1.09	0	0.4.0	48 P
U00951_al	8	2	20	20	18.040	1.61	1	0.4.0	47 P
U50939_al	7	2	20	20	18.035	1.47	1	0.3.5	46 P
U24576_al	8	2	20	20	18.040	2.15	1	0.4.0	42 P
U07151_al	8	2	20	20	18.040	1.14	0	0.4.0	40 P
U38810_al	8	1	20	20	18.040	1.37	1	0.8.0	40 P
U13948_al	9	2	20	20	18.045	1.61	1	0.4.5	37 P
S78569_al	7	1	20	20	18.035	0.99	0	0.7.0	35 P
U28833_al	7	1	20	20	18.035	1.04	0	1.7.0	33 P
U29615_al	8	2	20	20	18.040	1.05	0	0.4.0	33 P
M81882_al	8	2	20	20	18.040	1.65	1	0.4.0	31 P
U57452_al	7	1	20	20	18.035	0.96	0	0.7.0	29 P

Side 7

Gene Name	Connective tissue C										Avg Diff	Abs Call
	Posit	Negat	Pair	Pairs	In, Pos	Fractl	Log Avg	PM Ex	MM Excess	Pos/Neg		
Z23090_at	20	0	20	20	18 1.00	6.28		1	0 Inf		9609 P	
Z70759_at	20	0	20	20	18 1.00	8.75		11	0 Inf		7648 P	
Z12982_at	18	0	20	20	18 0.80	6.95		3	0 Inf		7468 P	
X07695_at	20	0	20	20	18 1.00	6.77		2	0 Inf		7458 P	
hum_aliu_at	69	0	69	69	67 1.00	7.07		11	0 Inf		7071 P	
X69150_at	19	0	20	20	18 0.95	7.89		8	0 Inf		6256 P	
X17206_at	20	0	20	20	18 1.00	7.81		8	0 Inf		4928 P	
X16064_at	19	0	20	20	18 0.95	8.14		6	0 Inf		4572 P	
X56932_at	20	0	20	20	18 1.00	7.69		5	0 Inf		4210 P	
AFFX-HUMGAPDH/M33197_3_at	20	0	20	20	18 1.00	7.15		2	0 Inf		4188 P	
AFFX-HSAC07/X00351_M_at	20	0	20	20	18 1.00	6.52		1	0 Inf		3970 P	
X60822_at	19	0	20	20	18 0.95	6.50		1	0 Inf		3963 P	
X03342_at	20	0	20	20	18 1.00	7.76		5	0 Inf		3818 P	
X67247_rna1_at	20	0	20	20	18 1.00	8.34		6	0 Inf		3725 P	
X06617_at	20	0	20	20	18 1.00	6.38		2	0 Inf		3387 P	
X15940_at	19	0	20	20	18 0.95	7.29		5	0 Inf		3375 P	
X63527_at	19	0	20	20	18 0.95	7.71		7	0 Inf		3282 P	
X05908_at	19	0	20	20	18 0.95	8.70		8	0 Inf		3217 P	
AFFX-CreX-3_at	19	0	20	20	18 0.95	8.12		6	0 Inf		3155 P	
AFFX-HSAC07/X00351_3_at	20	0	20	20	18 1.00	6.57		2	0 Inf		2994 P	
X73460_at	19	0	20	20	18 0.95	6.62		3	0 Inf		2949 P	
X62691_at	20	0	20	20	18 1.00	7.33		4	0 Inf		2885 P	
AFFX-HSAC07/X00351_5_at	19	0	20	20	18 0.95	6.46		1	0 Inf		2782 P	
X00274_at	20	0	20	20	18 1.00	7.97		8	0 Inf		2780 P	
AFFX-HUMGAPDH/M33197_M_at	18	0	20	20	18 0.90	5.92		0	0 Inf		2639 P	
X79234_at	20	0	20	20	18 1.00	8.10		4	0 Inf		2602 P	
X55954_at	20	0	20	20	18 1.00	7.53		6	0 Inf		2495 P	
Z26876_at	20	0	20	20	18 1.00	7.65		6	0 Inf		2490 P	
Z28407_at	17	0	20	20	18 0.85	5.59		1	0 Inf		2386 P	
Y07755_at	19	0	20	20	18 0.95	7.10		2	0 Inf		2378 P	
X64707_at	19	0	20	20	18 0.95	5.87		2	0 Inf		2268 P	
AFFX-CreX-5_at	19	0	20	20	18 0.95	7.77		3	0 Inf		2185 P	
U78027_rna3_at	18	2	20	20	18 0.90	7.38		6	0 9.0		2156 P	
X67683_at	19	0	20	20	18 0.95	5.62		1	0 Inf		2126 P	
AFFX-HUMGAPDH/M33197_5_at	19	0	20	20	18 0.95	7.18		6	0 Inf		2120 P	
X69391_at	19	0	20	20	18 0.95	7.24		4	0 Inf		2094 P	
AB002533_at	18	0	20	20	18 0.90	5.92		0	0 Inf		2063 P	
X68277_at	18	0	20	20	18 0.95	8.28		7	0 Inf		1972 P	
X53777_at	18	1	20	20	18 0.90	7.13		6	0 18.0		1915 P	
X55715_at	20	0	20	20	18 1.00	7.32		2	0 Inf		1744 P	
X52851_rna1_at	20	0	20	20	18 1.00	6.55		3	0 Inf		1727 P	
X67951_at	19	0	20	20	18 1.00	6.97		2	0 Inf		1472 P	
X77584_at	19	0	20	20	18 0.95	7.09		3	0 Inf		1470 P	
X02152_at	18	0	20	20	18 0.90	6.79		2	0 Inf		1432 P	
X57959_at	19	0	20	20	18 0.95	7.24		3	0 Inf		1426 P	
X13839_at	18	0	20	20	18 0.90	6.61		3	0 Inf		1405 P	
AFFX-BioDn-3_at	17	2	20	20	18 0.85	4.13		0	8.5		1401 P	
X52966_at	17	1	20	20	18 0.85	6.56		5	0 17.0		1361 P	
X15341_at	20	0	20	20	18 1.00	6.91		6	0 Inf		1338 P	
X56997_rna1_at	17	0	20	20	18 0.85	5.20		2	0 Inf		1308 P	

Side 1

Connective tissue C									
	18	0	20	20	18	0.90	7.15	4	0 Inf
X80909_at	18	0	20	20	18	0.90	7.15	4	0 Inf
X60489_at	19	0	20	20	18	0.95	6.91	4	0 Inf
X12447_at	15	0	20	20	18	0.75	3.29	1	0 Inf
Z25749_ma1_at	18	1	20	20	18	0.90	5.26	0	0 18.0
X51466_at	16	0	20	20	18	0.80	5.14	1	0 Inf
X53331_at	18	0	20	20	18	0.90	6.29	1	0 Inf
Z19574_ma1_at	19	0	20	20	18	0.95	5.04	0	0 Inf
X82693_at	19	0	20	20	18	0.95	4.56	0	0 Inf
X95404_at	15	0	20	20	18	0.75	4.66	1	0 Inf
AF001548_ma1_at	17	0	20	20	18	0.85	5.12	1	0 Inf
X15183_at	17	1	20	20	18	0.85	6.82	2	0 17.0
U94586_at	20	0	20	20	17	1.00	8.01	6	0 Inf
X16560_at	17	0	20	20	18	0.85	6.16	3	0 Inf
U65932_at	19	0	20	20	18	0.95	5.61	0	0 Inf
X07696_at	17	0	20	20	18	0.85	5.66	1	0 Inf
X15822_at	18	0	20	20	18	0.90	5.05	3	0 Inf
V00572_at	20	0	20	20	18	1.00	6.57	2	0 Inf
X04412_at	17	1	20	20	18	0.85	4.49	1	0 17.0
X93036_at	16	0	20	20	17	0.80	4.59	1	0 Inf
Y00433_at	17	0	20	20	18	0.85	4.30	0	0 Inf
X65614_at	18	0	20	20	18	0.90	5.02	1	0 Inf
U90915_at	18	1	20	20	18	0.90	5.53	3	0 18.0
X16832_at	16	0	20	20	18	0.80	4.30	0	0 Inf
X05276_at	19	0	20	20	18	0.95	4.58	0	0 Inf
AFFX-HSAC07X00351_3_at	18	0	20	20	18	0.90	4.98	0	0 Inf
U73824_at	19	0	20	20	18	0.95	6.59	3	0 Inf
V01512_ma1_at	19	0	20	20	18	0.95	6.39	2	0 Inf
U93205_at	18	0	20	20	18	0.90	3.74	0	0 Inf
X13238_at	17	1	20	20	18	0.85	5.69	1	0 17.0
X56494_at	14	1	20	20	18	0.70	3.58	1	0 14.0
X07979_at	18	1	20	20	17	0.90	5.96	2	0 18.0
X86693_at	16	0	20	20	18	0.80	5.33	2	0 Inf
Z48950_at	17	0	20	20	18	0.85	4.43	0	0 Inf
X02317_at	19	0	20	20	18	0.95	5.45	0	0 Inf
X59834_at	17	1	20	20	18	0.85	5.44	0	0 17.0
Z24727_at	17	0	20	20	18	0.85	5.17	2	0 Inf
X58468_at	18	0	20	20	18	0.90	5.18	1	0 Inf
X03100_cd32_at	14	0	20	20	18	0.70	3.38	1	0 Inf
Y00503_at	18	0	20	20	18	0.90	4.44	0	0 Inf
U67171_at	12	0	20	20	18	0.60	2.64	0	0 Inf
U78095_at	16	1	20	20	17	0.80	3.28	0	0 16.0
X15880_at	10	1	20	20	18	0.50	3.09	0	0 10.0
X69550_at	13	1	20	20	18	0.65	2.30	0	0 13.0
X62634_ma1_at	17	1	20	20	17	0.85	3.73	1	0 17.0
X67698_at	17	0	20	20	18	0.85	3.49	0	0 Inf
U72511_at	15	0	20	20	18	0.75	3.49	1	0 Inf
X04106_at	13	2	20	20	18	0.65	2.50	0	0 6.5
X68314_at	14	0	20	20	18	0.70	3.09	0	0 Inf
X51521_at	19	1	20	20	18	0.95	4.60	1	0 19.0
X60036_at	17	0	20	20	18	0.85	4.60	0	0 Inf
U79294_at	15	1	20	20	18	0.75	3.95	2	0 15.0
X59892_at	12	1	20	20	18	0.60	2.57	0	0 12.0

Side 2

Connective tissue C

U70370_at	12	-2	20	20	18.060	2.66	1	0.60	361 P
X91504_at	11	1	20	20	18.055	1.54	0	0.110	360 P
U73843_at	13	1	20	20	18.065	3.39	1	0.130	356 P
L20688_at	13	0	20	20	18.065	2.63	0	0.1nf	356 P
X16662_at	14	2	20	20	18.070	3.64	1	0.70	355 P
X54304_at	15	0	20	20	18.075	3.90	0	0.1nf	350 P
Y00764_at	17	1	20	20	18.085	5.54	2	0.17.0	347 P
Z29505_at	18	0	20	20	18.090	4.62	0	0.1nf	345 P
U90878_at	16	1	20	20	18.080	5.35	0	0.160	335 P
Z21507_at	15	1	20	20	18.075	4.26	0	0.150	335 P
Z32765_at	11	1	20	20	18.055	2.00	0	0.110	330 P
X60221_at	17	1	20	20	18.085	5.00	0	0.17.0	329 P
X62320_at	10	0	20	20	18.050	2.31	0	0.1nf	327 P
X83218_at	17	0	20	20	18.085	5.26	0	0.1nf	322 P
X52003_at	9	2	20	20	18.045	2.33	0	0.45	321 P
X15882_at	11	2	20	20	18.055	1.84	0	0.55	314 P
X17042_at	16	0	20	20	17.080	5.83	3	0.1nf	314 P
X78136_at	15	1	20	20	18.075	4.66	0	0.150	309 P
Y00486_rna1_at	8	0	20	20	18.040	1.74	0	0.1nf	307 P
X13794_rna1_at	16	1	20	20	18.080	4.91	1	0.160	300 P
U70735_at	17	0	20	20	18.085	3.57	0	0.1nf	298 P
X71973_at	12	1	20	20	18.060	2.30	0	0.120	297 P
U78521_at	9	0	20	20	18.045	1.26	0	0.1nf	296 P
U94855_at	18	0	20	20	18.090	4.74	0	0.1nf	293 P
D29805_at	11	3	20	20	18.055	2.57	1	0.37	291 P
X75861_at	16	1	20	20	18.080	4.65	1	0.160	290 P
U77604_at	13	0	20	20	18.065	3.14	0	0.130	288 P
X90858_at	15	2	20	20	18.075	3.54	0	0.75	285 P
X86809_at	11	1	20	20	18.055	1.89	0	0.110	283 P
X80692_at	14	0	20	20	18.070	3.84	0	0.1nf	276 P
U72512_at	7	0	20	20	17.035	1.41	0	0.1nf	272 P
X55733_at	14	0	20	20	18.070	3.92	2	0.1nf	272 P
Y00281_at	14	2	20	20	18.070	3.22	0	0.70	272 P
U90313_at	17	0	20	20	18.085	3.76	0	0.1nf	270 P
X81817_at	15	2	20	20	18.075	3.43	1	0.75	266 P
Z48199_at	10	1	20	20	18.050	1.74	0	0.100	263 P
U77594_at	10	0	20	20	18.050	2.03	0	0.1nf	262 P
X75593_at	10	2	20	20	18.050	2.92	1	0.50	260 P
Z14244_at	18	0	20	20	17.090	6.43	5	0.1nf	260 P
X91247_at	18	1	20	20	18.090	4.44	0	0.180	258 P
X06985_at	11	1	20	20	18.055	2.03	1	0.110	257 P
X76180_at	12	1	20	20	18.060	2.72	0	0.120	255 P
X76717_at	10	1	20	20	18.050	2.26	0	0.100	251 P
U65785_at	11	0	20	20	18.055	1.75	0	0.1nf	249 P
X91257_at	13	0	20	20	18.065	3.06	0	0.1nf	249 P
X87838_at	16	0	20	20	18.080	4.72	1	0.1nf	248 P
X75252_at	12	1	20	20	18.060	3.02	0	0.120	247 P
X97074_at	12	0	20	20	18.060	2.12	0	0.1nf	247 P
X16135_at	14	2	20	20	18.070	3.23	0	0.70	242 P
X96888_at	9	1	20	20	18.045	1.72	0	0.90	242 P
U34569_at	13	2	20	20	17.065	1.94	0	0.65	241 P

Side 3

Connective tissue C

X13444_at	9	0	20	20	18.045	1.61	0	0 Inf	241 P
U70732_ma1_at	9	2	20	20	18.045	1.35	0	0 4.5	240 P
X71428_at	11	1	20	20	18.055	2.25	0	0 11.0	240 P
U83115_at	13	0	20	20	18.065	3.05	1	0 Inf	239 P
X82434_at	11	0	20	20	18.055	1.84	0	0 Inf	237 P
X59417_at	14	2	20	20	18.070	2.91	1	1 7.0	231 P
X57346_at	13	1	20	20	17.065	3.80	0	0 13.0	230 P
X85785_ma1_at	9	0	20	20	18.045	1.61	0	0 Inf	229 P
X13546_ma1_at	15	0	20	20	17.075	2.97	0	0 Inf	222 P
X52730_ma1_at	8	0	20	20	18.040	1.24	0	0 Inf	222 P
X74104_at	15	1	20	20	18.075	4.00	1	0 15.0	222 P
U66879_at	9	2	20	20	17.045	2.00	0	0 4.5	221 P
Z27113_at	11	1	20	20	18.055	2.14	0	0 11.0	221 P
U66099_cds7_at	10	1	20	20	18.050	1.73	0	0 10.0	220 P
D13146_cds1_at	7	0	20	20	18.035	1.70	0	0 Inf	218 P
AFX-BioC-5_at	16	0	20	20	18.080	3.02	0	0 Inf	217 P
X69910_at	15	1	20	20	18.075	3.67	0	0 15.0	217 P
U78678_at	9	1	20	20	18.045	1.58	0	0 9.0	215 P
X76013_at	11	1	20	20	18.055	2.70	0	0 11.0	215 P
U70867_at	9	1	20	20	18.045	1.44	0	0 9.0	212 P
X69433_at	9	1	20	20	18.045	2.12	0	0 9.0	212 P
X69924_ma1_at	7	1	20	20	18.035	1.37	0	0 7.0	212 P
U77827_at	9	0	20	20	18.045	1.98	1	0 Inf	209 P
X69908_ma1_at	9	2	20	20	18.045	2.00	1	0 4.5	209 P
X80200_at	10	1	20	20	17.050	2.04	0	0 10.0	208 P
Z11793_at	15	1	20	20	18.075	4.49	4	0 15.0	208 P
U81556_at	12	2	20	20	18.060	2.25	0	0 6.0	207 P
U67963_at	9	1	20	20	18.045	2.10	0	0 9.0	206 P
X99585_at	14	1	20	20	18.070	4.48	1	0 14.0	206 P
U68566_at	10	2	20	20	18.050	1.94	0	0 5.0	204 P
U77396_at	8	0	20	20	18.040	1.53	0	0 Inf	201 P
U88629_at	12	1	20	20	18.060	3.30	0	0 12.0	199 P
X02612_at	12	1	20	20	18.060	2.99	0	0 12.0	199 P
X15187_at	14	1	20	20	18.070	3.68	0	0 14.0	199 P
Y00282_at	14	0	20	20	18.070	3.70	1	0 Inf	199 P
U85611_at	11	1	20	20	18.055	2.16	0	0 11.0	192 P
X72964_at	12	0	20	20	18.060	2.74	0	0 Inf	192 P
U73379_at	12	0	20	20	17.060	1.94	0	0 Inf	191 P
X56253_ma1_at	12	1	20	20	18.060	2.65	1	0 12.0	191 P
X64599_at	10	1	20	20	18.050	1.50	0	0 10.0	190 P
U86529_at	7	0	20	20	18.035	1.56	0	0 Inf	189 P
X04366_at	11	1	20	20	18.055	2.47	0	0 11.0	188 P
X52947_at	14	0	20	20	18.070	5.43	2	0 Inf	188 P
U70663_at	8	0	20	20	18.040	1.58	0	0 Inf	187 P
X89750_at	19	0	20	20	18.085	4.23	0	0 Inf	186 P
U08976_at	9	1	20	20	18.045	1.58	0	0 9.0	185 P
X69699_at	7	0	20	20	18.035	1.59	0	0 Inf	183 P
X01388_at	7	1	20	20	18.035	1.02	0	0 7.0	182 P
U70063_at	9	3	20	20	18.045	2.13	0	0 3.0	176 P
U72517_at	10	2	20	20	18.050	1.55	0	0 5.0	175 P
X76228_at	11	1	20	20	18.055	2.50	0	0 11.0	175 P
X78549_at	13	0	20	20	17.065	1.73	1	0 Inf	175 P

Side 4



Connective tissue C									
Z14000_at	7	0	20	20	18.035	1.05	0	0 Inf	174 P
U79254_at	13	1	20	20	18.065	4.22	0	0 13.0	165 P
X62078_at	9	0	20	20	18.045	1.84	0	0 Inf	165 P
U94585_at	10	3	20	20	18.050	1.40	0	0 3.3	163 P
U72066_at	11	1	20	20	18.055	1.50	0	0 11.0	162 P
U88964_at	9	1	20	20	18.045	2.60	0	0 9.0	161 P
U70660_at	9	1	20	20	18.045	1.35	0	0 9.0	160 P
X52541_at	16	0	20	20	17.080	3.99	2	0 Inf	160 P
X95588_at	16	0	20	20	18.080	3.20	0	0 Inf	160 P
X71129_at	10	1	20	20	17.050	1.89	1	0 10.0	159 P
X53416_at	8	0	20	20	18.040	1.55	0	0 Inf	158 P
X12794_at	8	1	20	20	18.040	1.58	0	0 8.0	157 P
X61970_at	13	0	20	20	18.065	3.44	0	0 Inf	157 P
Z37986_at	9	1	20	20	18.045	1.61	0	0 9.0	157 P
J04182_at	12	1	20	20	18.060	2.60	0	0 12.0	157 P
AFFX-BioC-3_at	11	1	20	20	18.055	2.12	0	0 11.0	156 P
X14787_at	12	2	20	20	18.060	4.02	0	1 6.0	155 P
X62535_at	10	0	20	20	18.050	2.78	1	0 Inf	155 P
X85373_at	11	0	20	20	18.055	2.75	1	0 Inf	155 P
X96484_at	10	1	20	20	18.050	1.71	0	0 10.0	154 P
X98311_at	9	0	20	20	18.045	1.80	0	0 Inf	154 P
L00205_at	12	0	20	20	18.060	2.47	0	0 Inf	154 P
X16316_at	10	2	20	20	18.050	1.87	0	0 5.0	153 P
U69263_at	14	1	20	20	17.070	2.22	0	0 14.0	152 P
X74801_at	11	0	20	20	18.055	3.34	0	0 Inf	152 P
U70322_at	13	1	20	20	18.065	2.19	0	0 13.0	151 P
D86988_at	7	0	20	20	18.035	1.09	0	0 Inf	151 P
V00563_at	11	1	20	20	18.055	2.59	1	0 11.0	150 P
X76029_at	7	2	20	20	18.035	1.35	0	0 3.5	150 P
U78798_at	9	3	20	20	18.045	1.83	0	0 3.0	148 P
X90872_at	12	2	20	20	18.060	1.80	0	0 6.0	148 P
U78524_at	7	1	20	20	18.035	1.34	1	0 7.0	147 P
X04500_at	9	2	20	20	17.045	1.39	0	0 4.5	147 P
X12791_at	12	1	20	20	18.060	2.05	0	0 12.0	146 P
X80199_at	12	1	20	20	18.060	2.67	0	0 12.0	146 P
X83425_at	9	2	20	20	18.045	1.76	0	0 4.5	146 P
X13967_at	9	2	20	20	18.045	1.96	0	0 4.5	145 P
X63422_at	9	2	20	20	17.045	2.55	0	0 4.5	145 P
X74008_at	9	3	20	20	18.045	2.32	1	0 3.0	145 P
X99920_at	12	0	20	20	18.060	2.96	1	0 Inf	145 P
Z50022_at	12	1	20	20	18.060	1.68	0	0 12.0	145 P
X74795_at	11	3	20	20	17.055	2.46	0	0 3.7	143 P
X68733_ma1_at	8	0	20	20	18.040	1.30	0	0 Inf	142 P
X76534_at	15	0	20	20	17.075	4.66	1	0 Inf	142 P
X82456_at	15	0	20	20	18.075	3.79	1	0 Inf	142 P
Z47727_at	12	0	20	20	18.060	2.81	0	0 Inf	142 P
U82010_ma1_at	12	0	20	20	18.060	2.54	1	0 Inf	141 P
U70451_at	7	1	20	20	18.035	1.19	0	0 7.0	139 P
X17620_at	8	2	20	20	18.040	1.31	0	0 4.0	139 P
X76770_at	13	1	20	20	18.065	3.07	0	0 13.0	139 P
AFFX-HUMRGE/M10098_5_at	10	2	20	20	18.050	2.39	0	0 5.0	138 P
U68063_at	14	0	20	20	18.070	3.15	0	0 Inf	137 P

Side 5

Connective tissue C										
U77948_at	14	0	20	20	18.0.70	3.86	0	0	Inf	137. P
D50405_at	11	1	20	20	18.0.55	1.94	0	0	11.0	137. P
HC651-HT4201_at	7	0	20	20	18.0.35	1.44	0	0	Inf	136. P
U89336_cds3_at	10	0	20	20	18.0.50	1.83	0	0	Inf	134. P
X76342_at	13	2	20	20	18.0.65	2.84	0	0	6.5	132. P
X54232_at	10	1	20	20	17.0.50	1.70	0	0	10.0	131. P
X70476_at	12	0	20	20	17.0.60	2.84	1	0	Inf	131. P
U68488_at	9	1	20	20	18.0.45	1.34	0	0	9.0	130. P
X01060_at	14	2	20	20	18.0.70	2.96	0	0	7.0	130. P
X14675_at	9	0	20	20	18.0.45	1.41	0	0	Inf	130. P
Y10032_at	14	4	20	20	18.0.70	2.96	3	1	3.5	130. P
D16105_at	8	1	20	20	18.0.40	1.31	0	0	8.0	130. P
U86070_at	11	3	20	20	18.0.55	1.48	0	0	3.7	128. P
Z24725_at	15	0	20	20	18.0.75	4.60	2	0	Inf	128. P
X52882_at	11	0	20	20	18.0.55	2.22	0	0	Inf	127. P
L00058_at	10	0	20	20	18.0.50	2.95	1	0	Inf	127. P
U86915_at	10	1	20	20	18.0.50	1.94	0	0	10.0	126. P
X64364_at	7	0	20	20	17.0.35	1.30	0	0	Inf	126. P
X88779_at	7	0	20	20	17.0.35	1.19	0	0	Inf	125. P
Z84721_cds2_at	12	4	20	20	18.0.60	1.56	0	0	3.0	125. P
X03656_ma1_at	10	2	20	20	17.0.50	1.82	1	0	5.0	124. P
X82895_at	9	1	20	20	18.0.45	1.91	0	0	9.0	124. P
Y09616_at	12	2	20	20	17.0.60	2.08	0	0	6.0	121. P
U67784_at	10	1	20	20	18.0.50	1.97	0	0	10.0	120. P
U80040_at	11	2	20	20	18.0.55	1.66	0	0	5.5	120. P
X72755_at	16	2	20	20	17.0.80	3.66	0	0	8.0	120. P
X60592_at	10	2	20	20	18.0.50	1.12	0	0	5.0	119. P
AFFX-HUMISGF3A/M97935_3_at	12	1	20	20	18.0.60	3.01	2	0	12.0	118. P
U78793_at	10	2	20	20	17.0.50	2.45	0	0	5.0	118. P
X12451_at	12	0	20	20	18.0.60	3.43	2	0	Inf	118. P
X75342_at	11	2	20	20	17.0.55	1.51	0	0	5.5	117. P
X01630_at	10	1	20	20	18.0.50	2.24	1	0	10.0	114. P
X82153_at	13	0	20	20	18.0.65	2.42	0	0	Inf	114. P
L11066_at	7	1	20	20	18.0.35	0.93	0	0	7.0	114. P
U90426_at	12	0	20	20	18.0.60	3.55	1	0	Inf	113. P
U91932_at	11	1	20	20	17.0.55	2.45	0	0	11.0	113. P
X92098_at	10	0	20	20	18.0.50	2.12	0	0	Inf	113. P
Y08134_at	8	1	20	20	18.0.40	1.74	0	0	8.0	113. P
U79260_at	7	0	20	20	18.0.35	1.62	0	0	Inf	112. P
U89336_cds1_at	10	1	20	20	18.0.50	2.01	0	0	10.0	112. P
X05409_at	7	1	20	20	18.0.35	1.29	0	0	7.0	112. P
X95735_at	10	1	20	20	18.0.50	1.85	1	0	10.0	112. P
Y11681_at	8	1	20	20	18.0.40	1.40	0	0	8.0	112. P
U97105_at	12	0	20	20	18.0.60	2.89	0	0	Inf	111. P
X03934_at	10	0	20	20	17.0.50	1.55	0	0	Inf	111. P
X61123_at	14	0	20	20	17.0.70	4.15	2	0	Inf	111. P
X73113_at	9	2	20	20	18.0.45	1.12	0	0	4.5	111. P
X86163_at	11	1	20	20	18.0.55	2.44	0	0	11.0	111. P
U79267_at	14	0	20	20	17.0.70	2.31	0	0	Inf	110. P
X15414_at	10	0	20	20	17.0.50	1.76	0	0	Inf	110. P
U82671_cds2_at	8	0	20	20	18.0.40	1.72	0	0	Inf	109. P
X99728_at	9	2	20	20	18.0.45	1.44	0	0	4.5	109. P

Side 6

Connective tissue C									
L10413_at	12	1	20	20	18.060	1.98	0	0.12.0	109 P
U79262_at	10	3	20	20	18.050	1.87	0	0.3.3	106 P
U78556_at	11	1	20	20	18.055	2.08	0	0.11.0	104 P
Z50194_at	12	2	20	20	18.060	2.75	1	0.6.0	103 P
X16416_at	7	1	20	20	18.035	1.51	0	0.7.0	102 P
X70340_at	7	0	20	20	18.035	1.68	0	0. Inf	101 P
Y00815_at	12	0	20	20	18.060	2.85	1	0. Inf	101 P
X62744_at	7	2	20	20	18.035	1.34	0	0.3.5	100 P
X65873_at	12	3	20	20	18.060	2.43	1	0.4.0	100 P
X02530_at	9	1	20	20	18.045	2.34	0	0.9.0	99 P
X71874_cdsl_at	8	1	20	20	18.040	1.24	0	0.8.0	99 P
U90913_at	9	0	20	20	18.045	1.97	0	0. Inf	98 P
Z35093_at	9	1	20	20	18.045	1.74	0	0.9.0	98 P
Z36531_at	13	2	20	20	18.065	2.63	0	0.6.5	98 P
Z48042_at	10	1	20	20	18.050	1.45	0	0.10.0	98 P
X82200_at	10	2	20	20	18.050	2.28	0	0.5.0	97 P
X06323_at	16	0	20	20	18.080	3.63	0	0. Inf	96 P
X52151_at	9	1	20	20	18.045	1.37	0	0.9.0	96 P
U83483_at	12	1	20	20	17.060	3.70	2	0.12.0	95 P
X93499_at	11	1	20	20	17.055	2.14	0	0.11.0	95 P
HG2743-HT2845_at	10	1	20	20	17.050	2.62	2	0.10.0	95 P
X74295_at	9	1	20	20	18.045	0.94	0	0.9.0	94 P
X80695_at	9	2	20	20	18.045	1.32	0	0.4.5	94 P
X92744_at	9	0	20	20	17.045	1.72	0	0. Inf	94 P
Z47087_at	14	1	20	20	17.070	3.25	0	0.14.0	94 P
U86782_at	14	0	20	20	18.070	3.19	0	0. Inf	93 P
X77794_at	14	1	20	20	17.070	3.63	1	0.14.0	93 P
U89278_at	8	2	20	20	18.040	0.95	0	0.4.0	91 P
X76732_at	13	0	20	20	18.065	3.90	0	0. Inf	91 P
X80910_at	10	0	20	20	18.050	2.51	0	0. Inf	91 P
U81802_at	7	1	20	20	18.035	1.52	0	0.7.0	90 P
X66401_cds1_at	12	1	20	20	18.060	2.65	0	0.12.0	90 P
X97302_at	8	0	20	20	17.040	1.60	0	0. Inf	90 P
X54942_at	11	1	20	20	18.055	2.13	1	0.11.0	89 P
X62486_at	8	2	20	20	17.040	2.09	0	0.4.0	89 P
X76104_at	7	2	20	20	18.035	1.34	0	0.3.5	89 P
X81003_at	11	0	20	20	18.055	2.07	0	0. Inf	89 P
X98263_at	13	0	20	20	17.065	2.37	0	0. Inf	89 P
U79287_at	8	0	20	20	18.040	1.56	0	0. Inf	88 P
U86602_at	8	1	20	20	18.040	1.57	0	0.8.0	88 P
X57766_at	9	2	20	20	18.045	1.69	1	0.4.5	88 P
Y08999_at	12	2	20	20	18.060	2.04	2	0.6.0	88 P
U72209_at	9	2	20	20	17.045	1.32	1	0.4.5	87 P
X85372_at	11	1	20	20	18.055	2.53	1	0.11.0	87 P
Y08915_at	9	0	20	20	18.045	1.86	0	0. Inf	87 P
U90919_at	13	0	20	20	18.065	3.25	0	0. Inf	86 P
X64838_at	11	1	20	20	18.055	1.77	0	0.11.0	84 P
Z69720_at	9	2	20	20	18.045	1.51	0	0.4.5	83 P
U82130_at	12	0	20	20	18.060	2.44	0	0. Inf	82 P
U90909_at	12	0	20	20	18.060	3.01	0	0. Inf	82 P
X78925_at	10	1	20	20	18.050	2.34	1	0.10.0	82 P
U90716_at	7	1	20	20	18.035	1.53	0	0.7.0	81 P

Side 7

Connective tissue C									
X98261_at	9	2	20	20	18.045	1.18	0	0.45	81 P
AFX-M27830_5_at	7	0	20	20	18.035	1.44	0	0 Inf	80 P
U90547_at	10	1	20	20	17.050	2.10	1	1 10.0	80 P
X66364_at	8	1	20	20	18.040	0.91	0	0.80	80 P
Z22548_at	8	1	20	20	17.040	1.97	0	0.80	80 P
Z50853_at	11	2	20	20	18.055	1.81	0	0.55	80 P
X78520_at	9	0	20	20	18.045	1.63	0	0 Inf	79 P
U96113_at	11	1	20	20	18.055	3.13	1	0 11.0	78 P
X68560_at	10	0	20	20	18.050	2.62	0	0 Inf	78 P
Z37166_at	10	0	20	20	17.050	1.47	0	0 Inf	78 P
U81006_at	10	0	20	20	18.045	3.41	1	0 Inf	76 P
U81607_at	9	1	20	20	18.045	2.66	2	0.90	76 P
U90911_at	10	0	20	20	18.050	3.00	0	0 Inf	76 P
X56807_at	8	2	20	20	18.040	1.60	0	0.40	76 P
X69141_at	11	1	20	20	18.055	2.22	0	0 11.0	76 P
X93921_at	9	3	20	20	18.045	1.61	0	0.30	76 P
X87176_at	9	2	20	20	18.045	1.61	0	0.45	75 P
Z23064_at	10	2	20	20	18.050	2.21	0	0.50	75 P
X61100_ma1_at	11	2	20	20	18.055	2.99	1	1.55	74 P
X63679_at	13	1	20	20	18.065	3.39	2	0 13.0	74 P
Y12711_at	12	1	20	20	18.060	2.00	2	1 12.0	73 P
Z72499_at	10	2	20	20	17.050	2.51	1	0.50	73 P
X83973_at	8	2	20	20	18.040	1.79	0	0.40	72 P
X84373_at	12	0	20	20	18.060	3.15	1	0 Inf	72 P
Y08614_at	7	2	20	20	18.035	1.33	0	0.35	72 P
Z29064_at	11	1	20	20	18.055	2.56	0	0 11.0	72 P
U80017_ma3_at	11	0	20	20	18.055	2.55	1	0 Inf	71 P
X72177_ma1_at	11	3	20	20	18.055	1.45	0	0.37	71 P
X80230_at	10	1	20	20	18.050	2.04	1	0 10.0	71 P
X63753_at	10	1	20	20	18.050	2.63	1	0 10.0	70 P
X64330_at	9	2	20	20	18.045	1.59	0	0.45	70 P
X81198_at	7	1	20	20	18.035	2.33	1	0.70	70 P
X83378_at	10	2	20	20	17.050	1.68	0	0.50	70 P
X98001_at	8	1	20	20	18.040	1.30	0	0.80	70 P
U65928_at	13	1	20	20	18.065	1.82	0	0 13.0	69 P
U70426_at	8	2	20	20	18.040	1.24	0	0.40	69 P
X79353_at	7	1	20	20	18.035	1.61	1	0.70	69 P
U76992_at	9	2	20	20	18.045	1.85	1	0.45	68 P
U87408_at	7	1	20	20	18.035	1.05	0	0.70	68 P
X07767_at	7	2	20	20	17.035	1.41	0	0.35	68 P
X63563_at	7	1	20	20	18.035	2.04	1	0.70	68 P
Y07867_at	10	2	20	20	18.050	2.61	0	0.50	68 P
X77548_at	7	1	20	20	18.035	1.43	0	0.70	67 P
Y11306_ma1_at	8	2	20	20	18.040	1.81	1	1.40	67 P
Z22865_at	8	2	20	20	18.040	1.48	0	0.40	67 P
AFX-BioB-3_at	11	1	20	20	18.055	1.24	0	0 11.0	66 P
X57522_at	11	3	20	20	18.055	2.04	0	0.37	65 P
X91788_at	12	3	20	20	18.060	2.03	0	0.40	65 P
U91327_at	8	2	20	20	17.040	2.45	1	0.40	64 P
U77665_at	8	0	20	20	18.040	1.25	1	0 Inf	63 P
X03635_at	11	2	20	20	18.055	1.87	0	0.55	63 P
X59798_at	7	2	20	20	18.035	1.34	0	0 3.5	63 P

Side 8

Connective tissue C									
X72841_at	13	1	20	20	18.055	3.41	1	0.13.0	63 P
X99325_at	8	1	20	20	18.040	1.08	0	0.8.0	63 P
U76369_at	8	1	20	20	18.040	1.26	1	0.8.0	62 P
X66397_at	11	0	20	20	17.055	2.33	0	0 Inf	62 P
X59405_at	9	2	20	20	18.045	2.15	0	0.4.5	61 P
Z68204_at	7	0	20	20	18.035	1.69	0	0 Inf	61 P
U79297_at	11	1	20	20	18.055	3.42	2	0.11.0	60 P
X16354_at	11	2	20	20	18.055	2.01	0	0.5.5	60 P
X78627_at	11	3	20	20	18.055	2.48	0	0.3.7	60 P
X55544_at	8	1	20	20	18.040	2.20	0	0.8.0	59 P
Y09443_at	7	0	20	20	18.035	1.56	0	0 Inf	59 P
U72508_at	7	1	20	20	18.035	1.24	0	0.7.0	58 P
U73682_at	8	2	20	20	18.040	1.16	0	0.4.0	58 P
Y90549_at	8	2	20	20	18.040	1.45	0	0.4.0	58 P
53586_rna1_at	11	0	20	20	18.055	4.12	2	0 Inf	57 P
.17227_at	10	2	20	20	18.050	1.95	1	0.5.0	57 P
(87212_at	9	2	20	20	18.045	2.58	1	0.4.5	55 P
X13482_at	7	1	20	20	18.035	1.10	0	0.7.0	54 P
X63469_at	7	0	20	20	18.035	1.85	0	0 Inf	54 P
U69141_at	7	1	20	20	18.035	1.20	0	0.7.0	53 P
U71207_at	9	3	20	20	18.045	1.54	0	0.3.0	53 P
U85992_at	9	2	20	20	18.045	1.82	0	0.4.5	52 P
U79274_at	8	1	20	20	18.040	1.17	0	0.8.0	51 P
U79291_at	13	0	20	20	17.065	4.11	3	0 Inf	50 P
X63337_at	9	2	20	20	18.045	1.31	0	0.4.5	50 P
X64229_at	10	3	20	20	18.050	1.38	1	0.3.3	50 P
Z29331_at	11	2	20	20	18.055	3.99	3	0.5.5	50 P
Z35491_at	8	0	20	20	17.040	2.75	1	0 Inf	50 P
X16396_at	9	0	20	20	18.045	2.61	1	0 Inf	49 P
X60673_rna1_at	9	2	20	20	18.045	1.60	0	0.4.5	49 P
U66669_at	9	2	20	20	18.045	1.83	0	0.4.5	48 P
U72342_at	10	3	20	20	18.050	1.41	0	0.3.3	48 P
U83908_at	9	2	20	20	18.045	2.41	1	0.4.5	48 P
X92396_at	8	2	20	20	18.040	2.11	1	0.4.0	48 P
D86550_at	9	0	20	20	18.045	2.24	0	0 Inf	48 P
X76648_at	9	1	20	20	18.045	2.11	0	0.9.0	47 P
Z68129_cds1_at	7	1	20	20	18.035	1.03	0	0.7.0	47 P
D10040_at	8	2	20	20	18.040	1.31	0	0.4.0	47 P
U84573_at	9	1	20	20	18.045	3.00	2	0.9.0	46 P
X54941_at	7	1	20	20	18.035	1.30	0	0.7.0	46 P
X76057_at	8	2	20	20	18.040	1.11	0	0.4.0	46 P
X98248_rna1_at	8	2	20	20	18.040	1.99	1	0.4.0	46 P
Z24724_at	10	0	20	20	18.050	2.59	1	0 Inf	46 P
U68111_at	9	0	20	20	18.045	1.75	0	0 Inf	45 P
U94332_at	9	1	20	20	18.035	1.71	1	0.7.0	45 P
X98172_at	9	0	20	20	18.045	1.23	0	0 Inf	45 P
X62048_at	8	0	20	20	18.040	1.87	0	0 Inf	44 P
X87241_at	10	2	20	20	18.050	2.53	0	0.5.0	44 P
X94232_at	8	0	20	20	17.040	1.63	0	0 Inf	44 P
Z95624_at	7	0	20	20	18.035	1.20	0	0 Inf	44 P
X04011_at	10	2	20	20	18.050	1.47	0	0.5.0	43 P
X98260_at	8	2	20	20	18.040	1.02	0	0.4.0	43 P

Connective tissue C										
X59841_at	8	0	20	20	18.040	1.58	0	0	Inf	42 P
X65644_at	7	1	20	20	17.035	0.97	0	0	7.0	42 P
X74262_at	9	2	20	20	18.045	2.21	0	0	4.5	42 P
X96586_at	8	1	20	20	18.040	1.20	0	0	8.0	42 P
U67319_at	7	1	20	20	18.035	0.93	1	0	7.0	41 P
X07024_at	8	1	20	20	18.040	1.31	0	0	8.0	41 P
X52520_at	9	1	20	20	18.045	2.59	0	0	9.0	41 P
U90912_at	8	1	20	20	18.040	1.12	0	0	8.0	40 P
X06948_at	8	2	20	20	18.040	1.65	1	0	4.0	40 P
X61118_rna1_at	10	0	20	20	18.050	2.33	0	0	Inf	40 P
X81788_at	11	3	20	20	18.055	2.32	1	0	3.7	40 P
X53793_at	10	2	20	20	18.050	2.40	0	0	5.0	39 P
X54326_at	8	2	20	20	17.040	1.00	0	0	4.0	39 P
U88666_at	8	2	20	20	18.040	1.56	1	0	4.0	37 P
X73608_at	7	1	20	20	18.035	1.62	0	0	7.0	37 P
X84002_at	8	2	20	20	18.040	1.58	0	0	4.0	37 P
U69127_at	8	0	20	20	18.040	1.33	0	0	Inf	35 P
X17025_at	8	2	20	20	17.040	1.78	1	0	4.0	35 P
X57206_at	8	2	20	20	17.040	1.15	0	0	4.0	35 P
X76051_at	8	2	20	20	18.040	2.02	1	0	4.0	35 P
Z34897_at	8	1	20	20	18.040	1.45	0	0	8.0	35 P
Z37976_at	8	0	20	20	17.040	0.95	0	0	Inf	35 P
X57303_at	8	1	20	20	17.040	1.94	0	0	8.0	34 P
X83368_at	10	2	20	20	18.050	2.16	2	0	5.0	34 P
Y10313_at	8	2	20	20	18.040	1.25	0	0	4.0	34 P
X63417_at	7	1	20	20	18.035	1.43	0	0	7.0	33 P
X94910_at	8	1	20	20	18.040	1.26	0	0	8.0	32 P
U77718_at	9	2	20	20	18.045	1.27	0	0	4.5	31 P
U90916_at	10	2	20	20	18.050	3.47	3	0	5.0	31 P
X06562_at	9	2	20	20	18.045	2.44	1	0	4.5	31 P
U73960_at	9	2	20	20	17.045	1.15	0	0	4.5	30 P
X07820_at	8	1	20	20	17.040	1.86	1	0	8.0	30 P
X57025_at	7	0	20	20	17.035	1.51	0	0	Inf	30 P
D16481_at	8	1	20	20	18.040	1.23	0	0	8.0	30 P
U75679_at	8	1	20	20	18.040	1.51	0	0	8.0	29 P
X84195_at	7	2	20	20	18.035	2.65	2	0	3.5	29 P
Z46973_at	8	2	20	20	18.040	1.73	1	0	4.0	28 P
U79258_at	8	1	20	20	18.040	2.27	0	0	8.0	27 P
X58723_at	9	2	20	20	18.045	2.60	1	0	4.5	27 P
X92110_at	8	2	20	20	18.040	2.38	2	0	4.0	27 P
X99584_at	7	1	20	20	18.035	1.22	0	0	7.0	27 P
Z22535_at	8	2	20	20	17.040	1.20	0	0	4.0	27 P
U92015_at	8	2	20	20	18.040	1.13	0	0	4.0	26 P
X73882_at	8	2	20	20	18.040	1.56	0	0	4.0	26 P
U79245_at	8	2	20	20	17.040	2.65	2	0	4.0	25 P
X95592_at	10	2	20	20	17.050	1.79	0	0	5.0	25 P
U66561_at	7	2	20	20	18.035	1.32	0	0	3.5	23 P
U97018_at	9	3	20	20	18.045	1.38	1	0	3.0	22 P

Side 10

Gene Name	Connective tissue D										Connective tissue D									
	Positiv	Nega	Pos	Pos	Pos	Pos	Pos	Pos	Pos	Pos	PM Ex	MMI Ex	Pos	Neg	Avg	Diff	Abs	Call		
M26311_s_at	17	0	19	19	17	0.89	5.63	2	0	Inf	15733	P								
X52426_s_at	19	0	20	20	18	0.95	4.98	0	0	Inf	13355	P								
M86757_s_at	20	0	20	20	18	1.00	6.88	2	0	Inf	10368	P								
L05187_at	20	0	20	20	18	1.00	5.41	1	0	Inf	6544	P								
hum_ailu_at	62	0	69	69	66	0.90	4.64	2	0	Inf	5696	P								
L04483_s_at	16	0	17	17	15	0.94	6.22	3	0	Inf	5632	P								
L42601_f_at	19	0	20	20	18	0.95	5.90	2	0	Inf	5155	P								
L42583_f_at	20	0	20	20	18	1.00	6.01	3	0	Inf	4939	P								
J04617_s_at	17	0	18	18	16	0.84	5.76	1	0	Inf	4935	P								
V01516_f_at	19	0	20	20	18	0.85	6.01	2	0	Inf	4779	P								
M63438_s_at	15	0	17	17	15	0.88	5.15	0	0	Inf	4579	P								
L05188_f_at	19	0	20	20	18	0.95	6.42	2	0	Inf	4465	P								
M19888_at	19	0	20	20	18	0.95	6.24	3	0	Inf	4441	P								
X53065_f_at	20	0	20	20	18	1.00	5.72	1	0	Inf	4285	P								
AFHX-HSAC07/X00351_M_at	20	0	20	20	18	1.00	5.33	0	0	Inf	4239	P								
X03689_s_at	19	0	19	19	17	1.00	7.09	1	0	Inf	4233	P								
X00351_f_at	19	0	20	20	18	0.95	7.19	2	0	Inf	4186	P								
AFHX-HUMGAPDH/M33197_3_at	19	0	20	20	18	0.95	5.92	1	0	Inf	4106	P								
X98482_f_at	2	0	3	3	3	0.67	2.08	0	0	Inf	3885	P								
M20030_f_at	20	0	20	20	18	1.00	6.64	4	0	Inf	3809	P								
M10277_s_at	19	0	20	20	18	0.95	5.59	3	0	Inf	3788	P								
J00105_s_at	20	0	20	20	18	1.00	8.04	5	0	Inf	3684	P								
X76223_s_at	18	1	20	20	18	0.90	4.92	1	1	18.0	3490	P								
M87789_s_at	18	1	20	20	18	0.90	4.97	1	0	18.0	3447	P								
IG2815-HT4023_s_at	19	0	20	20	18	0.95	5.41	1	0	Inf	3415	P								
'01677_f_at	19	0	20	20	18	0.95	5.09	1	0	Inf	3234	P								
14199_s_at	20	0	20	20	18	1.00	6.09	1	0	Inf	3222	P								
.FFX-CreX-3_at	19	0	20	20	18	0.95	6.91	2	0	Inf	3203	P								
.157348_s_at	15	0	19	19	17	0.79	4.47	1	0	Inf	3031	P								
AFHX-HSAC07/X00351_3_at	17	0	20	20	18	0.85	5.00	0	0	Inf	2862	P								
D49824_s_at	7	0	7	7	7	1.00	5.51	0	0	Inf	2821	P								
U43901_ma1_s_at	18	0	20	20	18	0.90	5.08	0	0	Inf	2812	P								
V00594_s_at	11	0	12	12	10	0.82	6.41	1	0	Inf	2805	P								
AFHX-HSAC07/X00351_5_at	18	0	20	20	18	0.90	5.13	0	0	Inf	2778	P								
D13413_ma1_s_at	17	0	18	18	16	0.94	5.38	0	0	Inf	2651	P								
U06155_s_at	12	1	14	14	12	0.88	5.03	0	1	12.0	2575	P								
AFHX-CreX-5_at	19	0	20	20	18	0.95	7.15	2	0	Inf	2535	P								
AFHX-HUMGAPDH/M33197_M_at	16	1	20	20	18	0.80	4.41	0	0	16.0	2457	P								
S82297_at	19	0	20	20	18	0.95	4.22	0	0	Inf	2360	P								
Z48148_s_at	20	0	20	20	18	1.00	5.62	1	0	Inf	2303	P								
HG2815-HT2931_at	5	0	6	6	6	0.83	4.17	0	0	Inf	2265	P								
M31520_ma1_s_at	15	0	16	16	14	0.94	6.19	2	0	Inf	2242	P								
M34518_at	5	0	5	5	5	1.00	4.11	0	0	Inf	2235	P								
M36072_at	16	0	20	20	18	0.80	4.10	0	0	Inf	2150	P								
AFHX-HUMGAPDH/M33197_5_at	18	0	20	20	18	0.90	5.78	3	0	Inf	2104	P								
M55409_s_at	14	0	20	20	18	0.70	3.86	0	0	Inf	1992	P								
L42611_f_at	12	0	12	12	10	1.00	5.81	0	0	Inf	1946	P								
X57351_s_at	13	0	14	14	12	0.93	6.37	0	0	Inf	1945	P								
HG2815-HT2931_s_at	19	0	20	20	18	0.95	5.49	3	0	Inf	1926	P								
X53296_s_at	18	0	20	20	18	0.90	6.05	2	0	Inf	1652	P								
M55998_s_at	18	0	20	20	18	0.90	5.06	1	0	Inf	1610	P								
X04470_s_at	18	0	19	19	17	0.95	5.06	1	0	Inf	1525	P								

Side 1

Connective tissue D

M24485_s_at	17	0	20	20	18.085	3.86	0	0	Inf	1522 P
S71043_rna1_s_at	16	0	20	20	18.080	3.68	1	0	Inf	1473 P
X51345_at	16	1	20	20	18.080	5.18	3	0	16.0	1446 P
HG4069-HT4339_s_at	18	0	20	20	18.090	5.56	2	0	Inf	1416 P
Y07909_at	16	1	20	20	18.080	6.79	5	1	16.0	1399 P
J04152_rna1_s_at	18	0	20	20	18.090	5.25	1	0	Inf	1311 P
Z48501_s_at	16	1	19	19	17.084	5.15	0	0	16.0	1263 P
S68896_at	17	1	20	20	18.085	5.37	0	0	17.0	1239 P
AFFX-BioDn-3_at	14	2	20	20	18.070	3.13	0	0	7.0	1215 P
X56681_s_at	15	2	20	20	18.075	4.09	1	0	7.5	1204 P
U19557_s_at	20	0	20	20	18.100	5.25	0	0	Inf	1195 P
Z19534_s_at	16	1	18	18	16.889	5.89	1	1	16.0	1186 P
S54005_s_at	19	0	20	20	18.095	5.92	1	0	Inf	1175 P
U68105_s_at	15	0	20	20	18.075	6.45	6	0	Inf	1173 P
HG417-HT417_s_at	19	0	20	20	18.085	5.40	2	0	Inf	1172 P
HG3431-HT3616_s_at	18	0	20	20	18.090	5.80	1	0	Inf	1126 P
M94880_f_at	30	0	40	40	38.075	3.63	0	0	Inf	1095 P
S72493_s_at	17	1	20	20	18.085	2.94	0	0	17.0	1072 P
U20734_s_at	16	0	20	20	18.080	3.73	1	0	Inf	1069 P
M34516_f_at	11	0	11	11	9.100	5.23	1	0	Inf	1059 P
X69634_at	17	0	20	20	18.085	4.74	0	0	Inf	1050 P
M92843_s_at	19	0	20	20	18.095	5.73	0	0	Inf	1028 P
M13560_s_at	15	0	20	20	18.075	3.95	1	0	Inf	952 P
U57341_f_at	1	0	2	2	2.050	2.92	0	0	Inf	941 P
L33930_s_at	15	1	20	20	18.075	4.28	0	0	15.0	917 P
M26708_s_at	19	0	20	20	18.095	5.11	3	0	Inf	917 P
X04347_s_at	18	0	20	20	18.090	4.90	1	0	Inf	911 P
HG1980-HT2023_at	12	0	20	20	18.060	2.78	0	0	Inf	903 P
HG658-HT658_f_at	30	0	40	40	38.075	3.12	0	0	Inf	869 P
M11313_s_at	17	1	20	20	18.085	5.16	2	0	17.0	842 P
M83667_rna1_s_at	17	0	20	20	18.085	3.60	0	0	Inf	838 P
M19311_s_at	12	1	16	16	14.075	5.56	0	0	12.0	822 P
M14328_s_at	14	1	20	20	18.070	3.92	0	0	14.0	819 P
X57351_at	5	0	8	8	8.063	2.90	0	0	Inf	816 P
U06643_s_at	13	0	19	19	17.068	2.94	0	0	Inf	802 P
N21142_cds2_s_at	13	2	20	20	18.065	3.48	0	0	6.5	782 P
Z68228_s_at	15	1	20	20	18.075	3.28	0	0	15.0	779 P
HG2797-HT2906_s_at	15	0	19	19	17.079	3.82	0	0	Inf	759 P
D32129_f_at	17	0	20	20	18.085	4.75	0	0	Inf	753 P
X57809_s_at	9	1	12	12	10.075	2.45	0	0	9.0	737 P
V00594_at	3	1	8	8	8.038	2.72	0	0	3.0	715 P
HG1515-HT1515_f_at	16	0	20	20	18.080	5.27	2	0	Inf	662 P
HG3342-HT3519_s_at	16	0	19	19	17.084	4.66	0	0	Inf	660 P
S75256_s_at	17	1	20	20	18.085	4.50	3	0	17.0	656 P
M19045_f_at	14	1	20	20	18.070	4.81	4	0	14.0	644 P
M14483_rna1_s_at	13	0	20	20	18.065	3.12	0	0	Inf	641 P
Z30643_at	10	3	20	20	17.050	2.07	0	0	3.3	640 P
AFFX-HSAC07X00351_3_st	15	0	20	20	18.075	3.82	0	0	Inf	629 P
X95240_s_at	13	2	20	20	18.065	3.73	4	1	6.5	626 P
M33600_f_at	16	0	20	20	18.080	3.73	0	0	Inf	619 P
X14008_rna1_f_at	13	2	20	20	18.065	4.15	3	0	6.5	602 P
M21302_at	14	1	20	20	18.070	4.11	2	0	14.0	600 P
X12671_rna1_at	20	0	20	20	18.100	4.55	0	0	Inf	594 P
L12711_s_at	11	1	19	19	17.058	3.30	1	0	11.0	589 P

Side 2



Connective tissue D																			
M12125_at	12	2	20	20	18 0.60	2.30	0	0.6.0	586 P										
M58026_at	10	1	20	20	18 0.50	2.18	0	0 10.0	573 P										
J03801_f_at	13	1	20	20	18 0.65	5.62	3	0 13.0	557 P										
D06974_at	15	2	20	20	18 0.75	2.56	0	0 7.5	519 P										
J03077_s_at	11	1	20	20	18 0.55	3.21	0	0 11.0	510 P										
M54915_s_at	13	0	20	20	18 0.65	3.37	0	0 Inf	500 P										
HG3238-HT3413_f_at	12	1	20	20	18 0.60	3.01	0	0 12.0	490 P										
D17408_s_at	14	0	20	20	18 0.70	3.72	0	0 Inf	483 P										
M26730_s_at	17	1	20	20	18 0.85	5.65	2	0 17.0	465 P										
X05130_s_at	12	2	19	19	17 0.63	2.54	0	1 6.0	464 P										
U14394_at	11	3	20	20	18 0.55	2.95	0	0 3.7	456 P										
X17093_at	12	1	20	20	18 0.60	2.73	1	0 12.0	435 P										
L33075_at	17	0	20	20	18 0.85	4.20	1	0 Inf	432 P										
HG3597-HT3800_f_at	15	1	20	20	17 0.75	4.30	2	0 15.0	422 P										
U43916_s_at	15	0	20	20	18 0.75	3.48	0	0 Inf	409 P										
L40397_at	12	1	20	20	18 0.60	2.35	0	0 12.0	407 P										
HG1428-HT1428_s_at	15	0	20	20	18 0.75	4.25	1	0 Inf	401 P										
X02761_s_at	14	0	20	20	18 0.70	3.69	0	0 Inf	397 P										
X12876_s_at	15	1	20	20	18 0.75	4.25	0	0 15.0	385 P										
X99133_at	9	2	20	20	18 0.45	1.79	0	0 4.5	384 P										
L11672_at	6	0	12	12	10 0.50	2.17	0	0 Inf	370 P										
HG2917-HT3061_f_at	12	0	20	20	18 0.60	2.29	0	0 Inf	370 P										
HG3576-HT3779_f_at	11	2	20	20	18 0.55	2.86	0	0 5.5	365 P										
U00947_s_at	19	0	20	20	18 0.95	5.49	3	0 Inf	361 P										
HG2915-HT3059_f_at	10	0	20	20	17 0.50	2.22	0	0 Inf	351 P										
Z49835_s_at	14	3	20	20	18 0.70	3.25	1	1 4.7	349 P										
HG2994-HT4850_s_at	8	2	20	20	18 0.40	1.29	0	0 4.0	346 P										
D43682_s_at	9	3	20	20	18 0.45	2.40	0	0 3.0	345 P										
AFFX-BioDn-5_at	14	2	20	20	18 0.70	2.39	0	0 7.0	344 P										
Z69043_s_at	16	1	20	20	18 0.80	3.44	0	0 16.0	342 P										
X95325_s_at	11	3	20	20	18 0.55	1.91	0	0 3.7	340 P										
HG1322-HT5143_s_at	14	1	20	20	18 0.70	4.19	0	0 14.0	339 P										
AFFX-BioC-5_at	16	1	20	20	18 0.80	3.17	0	0 16.0	337 P										
J02683_s_at	11	0	20	20	18 0.55	2.60	0	0 Inf	337 P										
M62403_s_at	11	0	20	20	18 0.55	2.19	0	0 Inf	337 P										
U48705_rna1_s_at	12	1	20	20	18 0.60	3.02	1	0 12.0	327 P										
M33493_s_at	12	1	20	20	18 0.60	3.10	1	0 12.0	313 P										
U92314_s_at	14	4	20	20	18 0.70	2.77	0	0 3.5	311 P										
X15729_s_at	16	2	20	20	18 0.80	4.10	1	0 8.0	305 P										
U05861_at	14	0	20	20	18 0.70	3.11	0	0 Inf	297 P										
X13461_s_at	9	2	20	20	18 0.45	1.33	0	0 4.5	296 P										
U70439_s_at	12	1	20	20	18 0.60	2.88	0	0 12.0	288 P										
M19287_s_at	9	1	19	19	17 0.47	2.77	2	0 9.0	284 P										
L09209_s_at	13	1	20	20	18 0.65	2.95	0	0 13.0	279 P										
V00599_s_at	13	2	20	20	18 0.65	2.04	0	0 6.5	278 P										
M16750_s_at	13	0	20	20	18 0.65	3.30	0	0 Inf	277 P										
M94046_at	7	0	20	20	18 0.35	1.76	0	0 Inf	270 P										
M65292_s_at	14	1	20	20	18 0.70	3.97	1	1 14.0	251 P										
M12963_s_at	9	0	19	19	17 0.47	3.02	0	0 Inf	248 P										
M13690_s_at	10	0	20	20	17 0.50	2.40	1	0 Inf	248 P										
U72649_at	14	1	20	20	18 0.70	2.43	0	0 14.0	244 P										
M28213_s_at	17	0	20	20	18 0.85	4.88	1	0 Inf	241 P										
HG3076-HT3238_s_at	14	0	20	20	17 0.70	3.31	1	0 Inf	239 P										
M30448_s_at	12	2	20	20	17 0.60	2.84	0	0 6.0	239 P										

Side 3

## Connective tissue D

M34996_s_at	17	0	20	20	18 0.85	4.33	1	0 Inf	232 P
D17793_at	14	2	20	20	18 0.70	2.78	0	0 7.0	232 P
X52022_at	13	1	20	20	17 0.65	2.97	0	0 13.0	231 P
X06700_s_at	16	0	20	20	18 0.80	4.50	2	0 Inf	226 P
Y00787_s_at	12	0	20	20	18 0.60	2.65	0	0 Inf	224 P
U16799_s_at	14	2	20	20	18 0.70	3.85	2	0 7.0	223 P
X57152_ma1_s_at	14	2	20	20	18 0.70	2.80	0	0 7.0	223 P
D87017_cd53_at	8	0	20	20	18 0.40	1.43	0	0 Inf	222 P
U05681_s_at	12	2	20	20	18 0.60	1.94	0	0 6.0	221 P
M31551_s_at	13	1	20	20	18 0.65	3.30	1	1 13.0	219 P
X01703_at	14	2	20	20	18 0.70	2.83	1	0 7.0	218 P
J02621_s_at	11	0	20	20	18 0.55	2.51	1	0 Inf	217 P
M21539_at	13	0	20	20	18 0.65	2.60	1	0 Inf	215 P
L13740_at	7	0	20	20	18 0.35	1.21	0	0 Inf	212 P
X52979_ma1_s_at	14	1	20	20	18 0.70	2.51	0	0 14.0	209 P
M27436_s_at	13	0	20	20	18 0.65	3.39	0	0 Inf	206 P
J03805_s_at	16	0	18	18	16 0.89	5.53	3	0 Inf	206 P
X17567_s_at	10	2	20	20	17 0.50	2.32	0	0 5.0	206 P
M32304_s_at	9	2	20	20	18 0.45	1.56	0	0 4.5	202 P
M16342_at	13	1	20	20	17 0.85	2.88	0	0 13.0	201 P
M16652_at	3	0	4	4	4 0.75	2.05	0	0 Inf	201 P
X03068_f_at	18	3	40	40	38 0.45	1.61	0	0 6.0	194 P
M23323_s_at	11	2	20	20	18 0.55	1.80	0	0 5.5	192 P
K02405_f_at	10	2	20	20	18 0.50	1.27	0	0 5.0	192 P
HC4535-HT4940_s_at	8	1	20	20	18 0.40	1.14	0	0 8.0	191 P
M57466_s_at	9	2	20	20	18 0.45	2.18	0	0 4.5	188 P
M97935_s_at	13	2	20	20	18 0.65	2.71	0	0 6.5	186 P
X04526_at	14	1	20	20	18 0.70	2.32	0	0 14.0	185 P
M29874_s_at	13	2	20	20	18 0.65	2.72	0	0 6.5	185 P
U04636_ma1_s_at	11	1	20	20	18 0.55	1.99	0	1 11.0	184 P
Z15115_at	14	2	20	20	18 0.70	2.33	0	0 7.0	184 P
X72727_at	15	1	20	20	18 0.75	3.16	0	0 15.0	183 P
Y00264_at	13	1	20	20	17 0.65	3.56	0	0 13.0	183 P
AFFX-BioC-3_at	11	0	20	20	18 0.55	1.90	0	0 Inf	175 P
HC3044-HT3742_s_at	11	0	20	20	18 0.55	2.78	0	0 Inf	175 P
U61734_s_at	10	1	19	19	17 0.53	2.84	1	0 10.0	175 P
L49380_at	8	2	20	20	18 0.40	1.18	0	0 4.0	171 P
D10667_s_at	14	1	17	17	15 0.82	3.23	0	0 14.0	171 P
D78577_s_at	11	1	20	20	18 0.55	2.47	2	0 11.0	170 P
D83174_s_at	9	0	20	20	17 0.45	1.86	0	0 Inf	169 P
M37457_at	3	0	4	4	4 0.75	2.10	0	0 Inf	168 P
D78132_s_at	14	0	20	20	18 0.70	5.12	2	0 Inf	167 P
X71345_f_at	9	2	20	20	18 0.45	1.93	1	0 4.5	166 P
U08021_at	10	0	20	20	17 0.50	2.15	0	0 Inf	165 P
U01691_s_at	9	0	20	20	18 0.45	3.00	3	0 Inf	164 P
:AB3216_s_at	15	1	20	20	18 0.75	3.89	0	0 15.0	163 P
IG688-HT688_f_at	10	1	20	20	18 0.50	1.61	0	0 10.0	163 P
M30703_s_at	10	1	20	20	18 0.50	2.67	1	1 10.0	160 P
U79528_s_at	7	0	20	20	18 0.35	1.46	0	0 Inf	160 P
M93651_at	10	0	20	20	18 0.50	2.68	1	0 Inf	159 P
HC4541-HT4946_s_at	10	0	18	18	16 0.56	2.35	0	0 Inf	159 P
X73358_s_at	9	1	19	19	17 0.47	1.75	1	0 9.0	159 P
Z35402_ma1_s_at	10	1	20	20	18 0.50	2.27	0	0 10.0	159 P
U12767_at	13	0	20	20	17 0.65	2.37	0	0 Inf	154 P

Side 4

Connective tissue D																			
X56841_at	10	3	20	20	18	0.50	1.42	0	0.33	154 P									
Z74616_s_at	7	0	20	20	18	0.35	1.67	0	0 Inf	153 P									
AFFX-HUMRCE/M10098_5_at	12	2	20	20	18	0.60	2.04	0	0.60	152 P									
M69181_at	8	1	20	20	18	0.40	1.76	0	0.80	151 P									
HG4312-HT4582_s_at	13	1	20	20	18	0.65	3.18	2	0.130	149 P									
HG4264-HT4534_s_at	8	1	18	18	16	0.44	2.33	0	0.80	149 P									
X85116_ma1_s_at	12	2	20	20	17	0.60	1.88	0	0.60	149 P									
X05855_s_at	14	0	15	15	12	0.93	5.08	1	0 Inf	148 P									
M13452_s_at	8	2	20	20	17	0.40	1.31	0	0.40	147 P									
J04029_s_at	10	2	18	18	16	0.56	1.73	0	0.50	145 P									
U09587_at	13	1	20	20	18	0.65	2.76	0	0.130	144 P									
U54644_s_at	7	1	20	20	17	0.35	1.37	0	0.70	143 P									
X04602_s_at	17	0	20	20	18	0.85	3.33	0	0 Inf	141 P									
U09510_s_at	12	2	20	20	18	0.60	2.85	2	0.60	138 P									
X14684_s_at	10	0	20	20	18	0.50	1.97	0	0 Inf	136 P									
S82447_s_at	8	2	20	20	17	0.40	1.23	0	0.40	134 P									
Z84497_s_at	11	1	20	20	18	0.55	1.92	1	0.110	131 P									
S40719_s_at	9	3	20	20	18	0.45	1.49	0	0.30	130 P									
S69272_s_at	9	2	20	20	18	0.45	1.94	0	0.45	129 P									
X83416_s_at	9	1	20	20	18	0.45	2.63	1	0.90	128 P									
M96954_s_at	8	1	19	19	17	0.42	2.02	0	0.80	127 P									
Z25521_s_at	9	0	20	20	18	0.45	1.60	0	0 Inf	127 P									
K03431_cds1_at	7	1	20	20	18	0.35	1.26	0	0.70	127 P									
M24069_at	12	2	20	20	18	0.60	2.55	2	0.60	127 P									
L15189_s_at	9	1	20	20	18	0.45	3.10	1	0.90	126 P									
M13929_s_at	10	1	20	20	17	0.50	2.17	0	0.100	125 P									
Z47055_s_at	13	1	20	20	17	0.65	2.45	0	0.130	124 P									
X80763_s_at	8	0	20	20	18	0.40	1.74	0	0 Inf	124 P									
M36430_s_at	9	1	20	20	17	0.45	1.82	0	0.90	118 P									
J03242_s_at	9	1	20	20	18	0.45	1.42	0	0.90	117 P									
X14766_at	11	2	20	20	18	0.55	1.49	0	0.55	115 P									
M18391_s_at	11	0	20	20	18	0.55	2.29	0	0 Inf	114 P									
U26173_s_at	13	0	20	20	18	0.65	2.98	2	0 Inf	114 P									
AC002045_xp12_s_at	12	2	20	20	17	0.60	1.73	0	0.60	113 P									
HG273-HT273_s_at	6	2	15	15	13	0.40	1.42	0	0.30	113 P									
HG2743-HT2846_s_at	10	1	20	20	18	0.50	1.52	0	0.100	113 P									
X03350_at	14	1	20	20	18	0.70	3.75	2	0.140	112 P									
X65965_s_at	12	1	18	18	16	0.67	2.86	0	0.120	112 P									
U27460_at	10	2	20	20	18	0.50	1.91	0	0.50	111 P									
HG2639-HT2735_s_at	10	1	20	20	18	0.50	2.56	1	0.100	110 P									
U32986_s_at	10	0	20	20	18	0.50	1.88	0	0 Inf	110 P									
L06797_s_at	8	2	20	20	17	0.40	2.24	0	0.40	109 P									
U41767_s_at	8	2	20	20	17	0.40	1.12	0	0.40	108 P									
X12953_at	9	1	20	20	18	0.45	1.30	0	0.90	108 P									
M97796_s_at	7	2	19	19	16	0.37	1.59	0	0.35	107 P									
U50196_at	12	3	20	20	18	0.60	1.98	0	0.40	106 P									
X05610_at	8	2	20	20	17	0.40	1.75	0	0.40	104 P									
L24774_s_at	10	2	20	20	18	0.50	1.83	0	0.50	102 P									
M13994_s_at	7	2	20	20	18	0.35	1.52	1	0.35	102 P									
U41654_at	12	2	20	20	18	0.60	2.21	0	0.60	101 P									
U46006_s_at	13	0	20	20	18	0.65	3.02	0	0 Inf	101 P									
AFFX-HUMISGF3A/M97935_3_at	13	2	20	20	18	0.65	2.69	1	0.65	99 P									
Y00081_s_at	10	1	20	20	18	0.50	1.43	0	0.100	99 P									
X58528_s_at	12	0	17	17	15	0.71	3.67	1	0 Inf	99 P									

Side 5

## Connective tissue D

U36341_rna1_at	7	1	20	20	18.035	1.08	0	0.70	98 P
U22431_s_at	12	1	20	20	17.050	2.37	0	0.120	98 P
M60974_s_at	7	0	20	20	17.035	1.28	0	0.120	96 P
AFFX-BioB-5_at	8	2	20	20	18.040	1.15	0	0.40	95 P
D42040_s_at	8	2	20	20	18.040	1.51	0	0.40	94 P
U67122_s_at	11	1	20	20	18.055	2.43	0	0.110	94 P
U28014_at	13	0	20	20	18.065	3.23	1	0.120	94 P
D79206_s_at	8	0	20	20	17.040	1.32	0	0.120	93 P
S78771_s_at	10	3	20	20	18.050	1.91	0	0.33	92 P
M58525_s_at	7	1	20	20	18.035	1.20	0	0.70	92 P
M60483_rna1_s_at	9	1	18	18	18.050	2.65	1	0.90	92 P
HG2868-HT3012_s_at	9	2	20	20	18.045	2.18	1	0.45	91 P
U41518_at	10	0	20	20	18.050	1.67	0	0.120	90 P
Z74615_at	8	1	20	20	17.040	1.78	1	0.80	90 P
Z35085_s_at	14	1	19	19	17.074	4.26	1	0.140	90 P
L76517_at	7	0	20	20	17.035	1.61	0	0.120	89 P
M16276_at	9	1	20	20	18.045	1.78	0	0.90	89 P
D45917_s_at	10	2	20	20	18.050	2.13	2	1.50	88 P
U19495_s_at	15	1	20	20	17.075	4.92	4	0.150	88 P
X07438_s_at	14	2	19	19	17.074	3.49	1	0.70	88 P
U41740_at	12	2	20	20	18.060	2.58	1	0.60	86 P
X03363_s_at	9	1	20	20	18.045	1.54	0	0.90	86 P
M28882_s_at	8	1	17	17	15.047	2.28	1	0.80	85 P
HG4322-HT4592_at	11	2	20	20	18.055	2.59	1	0.55	85 P
L38490_s_at	7	1	20	20	18.035	1.30	0	0.70	84 P
X62083_s_at	7	1	20	20	18.035	1.31	1	0.70	84 P
U43944_at	12	1	20	20	18.060	2.44	0	0.120	84 P
HG3484-HT3678_s_at	9	0	20	20	18.045	2.10	0	0.120	83 P
X62534_s_at	10	0	20	20	18.050	2.63	0	0.120	83 P
Y00097_s_at	8	2	20	20	18.040	1.73	0	0.40	82 P
S72024_s_at	8	1	20	20	18.040	1.57	0	0.80	82 P
U72509_s_at	10	1	19	19	16.053	2.19	0	0.100	82 P
X65488_at	12	0	20	20	18.060	2.37	1	0.120	81 P
L32831_s_at	11	2	20	20	18.055	1.13	0	0.55	81 P
U45448_s_at	10	3	20	20	18.050	1.88	0	0.33	81 P
M20867_s_at	9	1	17	17	14.053	1.70	0	0.90	79 P
U30827_s_at	13	1	20	20	17.065	3.56	2	0.130	79 P
M31932_at	8	2	20	20	18.040	1.12	0	0.40	79 P
Z69030_s_at	6	1	18	18	16.033	1.85	1	0.60	78 P
HG3636-HT3849_s_at	9	1	20	20	18.045	1.88	1	0.90	77 P
U35005_s_at	10	2	20	20	18.050	2.08	0	0.50	76 P
HG2981-HT3127_s_at	11	1	19	19	17.058	1.75	0	0.110	75 P
D14826_s_at	7	1	20	20	18.035	1.19	0	0.70	74 P
M63836_s_at	9	0	20	20	18.045	2.69	1	0.120	73 P
Y00451_s_at	8	0	20	20	18.040	1.34	0	0.120	73 P
U19247_rna1_s_at	10	2	20	20	18.050	2.37	0	0.50	72 P
J04093_s_at	10	0	20	20	18.050	1.92	0	0.120	72 P
X60003_s_at	9	2	20	20	18.045	1.58	0	0.45	72 P
M61832_s_at	8	2	20	20	18.040	1.11	0	0.40	71 P
U01337_at	7	1	20	20	18.035	1.14	0	0.70	68 P
Z26491_s_at	10	0	20	20	18.050	2.52	1	0.120	66 P
U33936_s_at	12	2	20	20	18.060	1.80	0	0.60	66 P
S68805_at	10	0	20	20	18.050	2.36	0	0.120	65 P
D83260_s_at	8	1	19	19	16.042	1.83	0	0.80	65 P

Side 6

Connective tissue D

U20938_at	11	0	20	20	18.055	1.93	0	0 Inf	64 P
HG1400-HT1400_s_at	11	2	20	20	18.055	2.42	0	0.55	63 P
L14778_s_at	12	0	19	19	17.063	4.34	4	0 Inf	61 P
U96131_at	8	1	20	20	18.040	1.46	1	0.80	60 P
M17183_s_at	8	1	20	20	18.040	1.95	1	0.80	60 P
L00634_s_at	10	1	19	19	17.053	3.14	2	0.100	60 P
U58046_s_at	12	1	20	20	18.060	3.04	1	0.120	59 P
X53002_s_at	8	2	20	20	18.040	1.14	0	0.40	59 P
X69820_s_at	8	1	20	20	18.040	2.17	0	0.80	59 P
U33052_s_at	8	0	20	20	17.040	3.36	1	0 Inf	59 P
U44103_at	10	2	20	20	17.050	2.57	0	0.50	59 P
D28473_s_at	10	2	20	20	18.050	2.16	0	0.50	58 P
U60061_at	9	2	20	20	18.045	2.22	2	0.45	57 P
M21119_s_at	7	1	20	20	18.035	0.94	0	0.70	57 P
U33838_at	2	0	4	4	4.050	2.70	0	0 Inf	57 P
M24736_s_at	7	1	20	20	18.035	1.12	0	0.70	57 P
HG4518-HT4921_r_at	1	0	2	2	2.050	1.26	0	0 Inf	56 P
HG4557-HT4962_r_at	3	0	5	5	5.060	1.98	0	0 Inf	56 P
S77410_at	7	1	20	20	18.035	1.04	0	0.70	55 P
HG2090-HT2152_s_at	7	2	19	19	17.037	1.63	1	1.35	55 P
X81625_at	9	1	20	20	18.045	2.01	1	0.90	54 P
U41766_s_at	8	2	20	20	18.040	1.27	1	0.40	53 P
U61276_s_at	9	2	20	20	18.045	2.01	0	0.45	53 P
Y07566_at	9	1	20	20	18.045	1.50	0	0.90	53 P
U33632_at	12	1	20	20	17.060	3.09	1	0.120	52 P
M10321_s_at	7	1	20	20	18.035	1.12	0	0.70	52 P
J03934_s_at	9	2	20	20	18.045	1.91	0	0.45	51 P
X14253_s_at	8	2	20	20	18.040	1.76	0	0.40	51 P
L15326_s_at	10	1	20	20	18.050	1.91	0	0.100	50 P
M75715_s_at	9	1	19	19	17.047	2.08	0	0.90	50 P
L08010_at	8	2	20	20	17.040	1.72	0	0.40	50 P
M31516_s_at	7	0	20	20	18.035	1.37	0	0 Inf	49 P
M96843_at	8	2	20	20	18.040	0.99	0	0.40	48 P
X75918_at	11	2	20	20	18.055	1.77	0	0.55	48 P
D28235_s_at	10	1	20	20	18.050	1.49	0	0.100	47 P
M19508_xp03_s_at	8	1	20	20	18.040	0.95	0	0.80	47 P
S79219_s_at	9	3	20	20	18.045	1.79	0	0.30	46 P
L35249_s_at	7	1	18	18	16.039	1.78	0	0.70	45 P
U84388_at	10	0	20	20	18.050	3.54	1	0 Inf	45 P
AFFX-HUMTFRR/M11507_s_at	9	2	20	20	18.045	1.08	0	0.45	44 P
HG2743-HT3926_s_at	12	1	20	20	18.060	1.82	0	0.120	44 P
HG945-HT945_s_at	9	2	20	20	18.045	1.08	0	0.45	44 P
U69140_s_at	7	1	18	18	16.039	2.73	1	0.70	44 P
AFFX-HUMRGE/M10098_M_at	7	1	20	20	18.035	1.75	0	0.70	42 P
U73936_at	8	2	20	20	18.040	1.14	0	0.40	42 P
AB000381_s_at	9	2	20	20	18.045	2.66	2	0.45	42 P
M29610_at	9	2	14	14	12.064	4.77	4	0.45	42 P
U04285_s_at	9	3	20	20	17.045	1.90	1	0.30	42 P
HG3075-HT3236_s_at	7	2	20	20	17.035	1.57	2	0.35	40 P
X54993_s_at	8	2	20	20	18.040	1.29	1	0.40	40 P
U61397_s_at	7	1	20	20	18.035	1.56	0	0.70	40 P
X99886_s_at	7	0	19	19	17.037	1.26	0	0 Inf	40 P
S82597_ma1_s_at	9	1	20	20	18.045	1.21	0	0.90	39 P
X06182_s_at	8	1	20	20	18.040	1.48	1	0.80	38 P

Side 7

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Normal urothelium A

Gene Name	Pos	Neg	Pair	Pos	Fr	Log	Av	PM	IMM	Pos/N	Avg	Diff	Abs	Call
hum_ali_at	69	0	69	67	1.00	7.38		12	0	Inf			27021 P	
.06499_at	20	0	20	20	18.100	7.57		3	0	Inf			12530 P	
A33214-HT3391_at	19	0	20	20	18.095	7.36		4	0	Inf			8561 P	
AFFX-CreX_3_at	19	0	20	20	18.095	8.08		2	0	Inf			5961 P	
HG3384-HT3541_at	20	0	20	20	18.100	7.76		7	0	Inf			5937 P	
M13934_cds2_at	19	0	20	20	18.095	6.91		1	0	Inf			5721 P	
HG1800-HT1823_at	19	0	20	20	18.095	7.68		4	0	Inf			5403 P	
M17886_at	18	0	20	20	18.090	5.81		1	0	Inf			5130 P	
M11147_at	18	0	20	20	18.090	6.85		3	0	Inf			4610 P	
D45370_at	19	0	20	20	18.095	5.40		2	0	Inf			4549 P	
HG2873-HT3017_at	18	0	20	20	18.090	7.15		3	0	Inf			4508 P	
AFFX-CreX-5_at	20	0	20	20	18.100	7.29		4	0	Inf			4443 P	
M18000_at	20	0	20	20	18.100	8.01		6	0	Inf			4368 P	
D23660_at	19	0	20	20	18.095	7.99		6	0	Inf			4257 P	
L06505_at	17	0	20	20	18.085	5.35		2	0	Inf			4194 P	
HG3546-HT3751_at	19	0	20	20	18.095	6.73		3	0	Inf			4127 P	
M17885_at	19	1	20	20	18.095	6.97		2	0	19.0			3866 P	
AFFX-HUMGAPDH/M331	19	0	20	20	18.095	5.62		1	0	Inf			3862 P	
L38941_at	20	0	20	20	18.100	8.04		5	0	Inf			3734 P	
AFFX-BioDr-3_at	17	0	20	20	18.085	4.18		0	0	Inf			3458 P	
HG2788-HT2896_at	18	0	20	20	18.090	6.08		1	0	Inf			3126 P	
M17733_at	18	0	20	20	18.090	6.92		3	0	Inf			2982 P	
D78205_at	20	0	20	20	18.100	8.85		8	0	Inf			2864 P	
L19527_at	18	0	20	20	18.090	5.82		2	0	Inf			2522 P	
D78361_at	18	0	20	20	18.090	5.73		0	0	Inf			2513 P	
AFFX-HSAC07/X00351_3	18	0	20	20	18.090	5.45		1	0	Inf			2382 P	
D14530_at	20	0	20	20	18.100	7.43		3	0	Inf			2301 P	
HG821-HT821_at	18	0	20	20	18.090	5.85		2	0	Inf			1918 P	
HG613-HT613_at	19	0	20	20	17.095	6.85		5	0	Inf			1834 P	
HG4319-HT4589_at	19	0	20	20	18.095	6.05		1	0	Inf			1746 P	
HG384-HT384_at	12	0	20	20	17.060	4.27		2	0	Inf			1634 P	
L20941_at	15	0	20	20	17.075	3.62		1	0	Inf			1530 P	
HG4542-HT4947_at	17	0	20	20	18.085	5.16		1	0	Inf			1500 P	
HG311-HT311_at	18	1	20	20	17.090	6.14		3	0	18.0			1484 P	
AC002115_cds1_at	16	0	20	20	18.080	4.81		0	0	Inf			1456 P	
AC002115_cds4_at	16	0	20	20	18.080	3.23		0	0	Inf			1382 P	
M11353_at	16	1	20	20	17.080	6.14		3	0	16.0			1359 P	
HG33-HT33_at	18	0	20	20	17.090	5.44		1	0	Inf			1327 P	
D00017_at	16	0	20	20	18.080	4.46		0	0	Inf			1293 P	
L11566_at	14	0	20	20	18.070	3.86		0	0	Inf			1195 P	
D87735_at	17	0	20	20	17.085	4.52		1	0	Inf			1192 P	
AFFX-HSAC07/X00351_A	11	2	20	20	18.090	3.90		0	0	18.0			1181 P	
J04164_at	11	2	20	20	18.055	2.83		2	0	5.5			1166 P	
J03592_at	17	1	20	20	18.085	4.77		1	0	17.0			1140 P	
HG662-HT662_at	9	2	20	20	18.045	2.67		0	0	4.5			955 P	
L19886_ma1_at	14	2	20	20	18.070	3.02		0	0	7.0			919 P	
L26247_at	15	0	20	20	18.075	4.10		0	0	Inf			886 P	

Side 1

Normal urothelium A

HG2279-HT2375_at	16	0	20	20	20	18 0.80	2.80	1	0	Inf	872 P
D89667_at	17	1	20	20	20	18 0.85	5.25	0	0	17.0	842 P
D38583_at	18	1	20	20	20	18 0.90	4.55	1	0	18.0	841 P
AFFX-HSAC07/X00351_ε	16	1	20	20	20	18 0.80	4.03	1	0	16.0	829 P
D00654_at	15	0	20	20	20	18 0.75	3.92	1	0	Inf	751 P
D30655_at	14	0	20	20	20	18 0.70	4.02	1	0	Inf	728 P
AFFX-HUMGAPDH/M331	14	2	20	20	20	18 0.70	2.59	0	0	7.0	725 P
M19283_at	15	2	20	20	20	18 0.75	3.61	1	0	7.5	725 P
M19961_at	14	3	20	20	20	18 0.70	2.67	2	0	4.7	705 P
J03827_at	13	0	20	20	20	18 0.65	3.12	0	0	Inf	694 P
AFFX-BioOn-5_at	11	0	20	20	20	18 0.55	2.70	0	0	Inf	692 P
D63874_at	12	1	20	20	20	18 0.60	3.74	3	0	12.0	675 P
J03191_at	17	0	20	20	20	18 0.85	4.97	0	0	Inf	668 P
J04823_rna1_at	15	1	20	20	20	18 0.75	3.33	0	0	15.0	638 P
K03460_at	9	0	20	20	20	18 0.45	2.61	0	0	Inf	632 P
D29012_at	12	3	20	20	20	18 0.60	2.49	0	0	4.0	628 P
D14710_at	15	0	20	20	20	18 0.75	3.42	2	0	Inf	613 P
D45248_at	14	1	20	20	20	18 0.70	3.48	0	0	14.0	603 P
M15661_at	17	1	20	20	20	18 0.85	3.85	0	0	17.0	600 P
HG1153-HT1153_at	13	1	20	20	20	18 0.65	3.12	0	0	13.0	583 P
D28124_at	14	0	20	20	20	18 0.70	2.65	0	0	Inf	580 P
J04988_at	14	0	20	20	20	18 0.70	3.69	1	0	Inf	578 P
AFFX-BioC-5_at	15	1	20	20	20	18 0.75	2.69	0	0	15.0	557 P
K02765_at	15	0	20	20	20	18 0.75	2.97	1	0	Inf	540 P
J02854_at	11	0	20	20	20	18 0.55	2.21	0	0	Inf	522 P
D13118_at	9	1	20	20	20	18 0.45	2.11	1	0	9.0	501 P
D23662_at	14	1	20	20	20	18 0.70	2.87	0	0	14.0	496 P
D29963_at	13	1	20	20	20	18 0.65	2.14	0	0	13.0	482 P
D00761_at	15	0	20	20	20	18 0.75	2.92	0	0	Inf	462 P
M12529_at	9	1	20	20	20	18 0.45	2.16	0	0	9.0	448 P
L12168_at	10	0	20	20	20	18 0.50	2.72	0	0	Inf	445 P
M11119_at	9	0	20	20	20	18 0.45	1.94	0	0	Inf	437 P
D31883_at	10	2	20	20	20	18 0.50	1.48	0	0	5.0	431 P
D31846_at	10	0	20	20	20	18 0.50	1.89	0	0	Inf	424 P
M20471_at	15	0	20	20	20	18 0.75	2.97	0	0	Inf	421 P
D38548_at	9	1	20	20	20	18 0.45	2.00	0	0	9.0	417 P
J04456_at	16	0	20	20	20	18 0.80	3.92	1	0	Inf	413 P
AFFX-HUMGAPDH/M331	12	3	20	20	20	18 0.60	2.01	0	0	4.0	406 P
HG987-HT987_at	15	3	20	20	20	18 0.75	3.80	2	0	5.0	404 P
D23673_at	11	0	20	20	20	18 0.55	2.25	0	0	Inf	401 P
AFFX-BioC-3_at	13	0	20	20	20	18 0.65	2.46	0	0	Inf	391 P
D14520_at	10	1	20	20	20	18 0.50	2.04	0	0	10.0	387 P
D28598_at	10	0	20	20	20	18 0.50	2.32	0	0	Inf	384 P
D16562_at	15	1	20	20	20	17 0.75	4.14	1	1	15.0	364 P
L15702_at	12	2	20	20	20	18 0.60	1.91	0	0	6.0	363 P
L33842_rna1_at	14	1	20	20	20	18 0.70	3.38	0	0	14.0	358 P
L38486_at	12	2	20	20	20	18 0.60	2.38	0	0	6.0	354 P
D13748_at	12	1	20	20	20	18 0.60	2.07	0	0	12.0	353 P
HG2855-HT2995_at	13	1	20	20	20	18 0.65	2.94	0	0	13.0	347 P
AFFX-HSAC07/X00351_ε	12	0	20	20	20	17 0.60	3.21	0	0	Inf	346 P
D85815_at	11	3	20	20	20	18 0.55	1.88	0	0	3.7	344 P

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Normal urothelium A

D25274_at	11	2	20	20	17	0.55	2.35	0	0.55	342 P
L21954_at	13	4	20	20	18	0.65	2.18	0	0.33	341 P
D63475_at	14	1	20	20	18	0.70	3.17	0	0.140	338 P
M19483_at	13	1	20	20	18	0.65	2.28	0	0.130	338 P
D85429_at	11	1	20	20	18	0.55	2.03	0	0.110	333 P
D63878_at	12	3	20	20	18	0.60	1.71	0	0.40	331 P
D50310_at	18	0	20	20	18	0.90	3.57	0	0 Inf	325 P
D26068_at	10	2	20	20	18	0.50	2.74	1	0.50	323 P
D13640_at	7	2	20	20	18	0.35	1.74	0	0.35	313 P
M16279_at	7	2	20	20	18	0.35	1.59	0	0.35	311 P
D11428_at	7	1	20	20	18	0.35	1.23	0	1.70	309 P
HG2566-HT4867_at	10	2	20	20	18	0.50	1.69	0	0.50	307 P
AF015910_at	8	0	20	20	18	0.40	1.59	0	0 Inf	306 P
L19605_at	12	1	20	20	17	0.60	2.18	0	0.120	305 P
D90209_at	14	1	20	20	18	0.70	3.13	0	0.140	299 P
D38047_at	11	0	20	20	18	0.55	2.10	0	0 Inf	298 P
M13955_at	9	2	20	20	18	0.45	2.20	0	0.45	297 P
D49400_at	9	1	20	20	18	0.45	1.94	0	0.90	293 P
L09604_at	10	2	20	20	18	0.50	2.00	0	0.50	292 P
AB000584_at	10	2	20	20	18	0.50	1.42	0	0.50	286 P
L76200_at	10	3	20	20	18	0.50	2.12	1	0.33	285 P
J04611_at	10	1	20	20	18	0.50	1.79	0	0.100	279 P
M14200_ma1_at	10	1	20	20	17	0.50	1.88	0	0.100	274 P
HG1614-HT1614_at	9	1	20	20	17	0.45	1.30	0	0.90	272 P
J04794_at	9	3	20	20	18	0.45	1.45	0	0.30	271 P
AF006084_at	11	2	20	20	17	0.55	2.31	0	0.55	269 P
D26599_at	13	2	20	20	18	0.65	2.75	0	0.65	269 P
D50663_at	13	2	20	20	18	0.65	2.43	0	1.65	269 P
D16217_at	11	0	20	20	17	0.55	2.34	0	0 Inf	267 P
J02874_at	12	2	20	20	18	0.60	3.23	2	0.60	267 P
D25216_at	10	1	20	20	17	0.50	2.07	1	0.100	265 P
D55696_at	9	2	20	20	17	0.45	2.27	1	0.45	260 P
D82348_at	11	2	20	20	18	0.55	2.22	0	0.55	258 P
D14694_at	13	0	20	20	18	0.65	2.55	0	0 Inf	255 P
J03600_at	11	2	20	20	18	0.55	2.56	0	0.55	255 P
J03459_at	10	1	20	20	18	0.50	1.97	1	0.100	254 P
L25080_at	10	2	20	20	18	0.50	2.35	1	0.50	250 P
L07633_at	12	0	20	20	18	0.60	3.26	0	0 Inf	249 P
D10522_at	13	1	20	20	18	0.65	3.23	1	0.130	246 P
L02426_at	11	0	20	20	18	0.55	2.00	0	0 Inf	242 P
L10284_at	13	1	20	20	18	0.65	2.61	0	0.130	239 P
M14056_at	11	0	20	20	18	0.55	2.20	0	0 Inf	235 P
L13977_at	12	1	20	20	18	0.60	2.18	0	0.120	232 P
J03069_ma1_at	9	2	20	20	18	0.45	1.95	0	0.45	230 P
M13755_at	7	1	20	20	18	0.35	1.09	0	0.70	230 P
HG1862-HT1897_at	10	2	20	20	18	0.50	2.50	0	0.50	228 P
L13852_at	7	0	20	20	18	0.35	1.48	0	0 Inf	225 P
M12886_at	11	2	20	20	17	0.55	1.57	0	0.55	222 P
D88422_at	11	2	20	20	18	0.55	2.38	0	0.55	221 P
L25081_at	7	0	20	20	18	0.35	1.12	0	0 Inf	219 P

Side 3

## Normal urothelium A

D26600_at	15	1	20	20	17	0.75	2.67	0	0	15.0	218 P
L11285_at	9	2	20	20	18	0.45	1.62	0	0	4.5	218 P
L40904_at	7	0	20	20	18	0.35	1.76	0	0	Inf	218 P
HG3494-HT3688_at	8	1	20	20	17	0.40	1.31	0	0	8.0	217 P
D21089_at	10	1	20	20	17	0.50	2.25	1	0	10.0	215 P
D86965_at	8	1	20	20	18	0.40	1.45	0	0	8.0	215 P
L24203_at	11	0	20	20	18	0.55	1.98	0	0	Inf	213 P
M14676_at	9	3	20	20	18	0.45	1.96	0	0	3.0	213 P
K03430_at	9	0	20	20	18	0.45	1.79	0	0	Inf	212 P
L40027_at	10	2	20	20	18	0.50	1.97	1	0	5.0	212 P
D00763_at	11	1	20	20	18	0.55	1.92	0	0	11.0	211 P
L19437_at	10	0	20	20	18	0.50	2.35	1	0	Inf	210 P
HG1078-HT1078_at	14	2	20	20	18	0.70	2.55	0	0	7.0	207 P
L32977_at	14	1	20	20	17	0.70	3.51	1	0	14.0	204 P
D87953_at	11	0	20	20	18	0.55	2.89	0	0	Inf	203 P
AB001325_at	8	2	20	20	18	0.40	0.92	0	0	4.0	200 P
D78134_at	10	2	20	20	17	0.50	2.15	0	0	5.0	200 P
D43642_at	12	1	20	20	18	0.60	2.32	0	0	12.0	197 P
D14652_at	10	1	20	20	18	0.50	2.68	1	0	10.0	191 P
D31854_at	11	2	20	20	18	0.55	1.99	0	0	5.5	191 P
D83542_at	10	3	20	20	18	0.50	1.53	0	0	3.3	191 P
HG3514-HT3708_at	10	1	20	20	18	0.50	2.20	0	0	10.0	191 P
D63486_at	8	0	20	20	17	0.40	1.11	0	0	Inf	190 P
D31890_at	13	1	20	20	17	0.65	3.06	1	0	13.0	186 P
D49738_at	11	3	20	20	18	0.55	1.83	0	0	3.7	186 P
D50053_at	9	2	20	20	18	0.45	1.60	1	1	4.5	183 P
D63160_at	7	0	20	20	18	0.35	1.23	0	0	Inf	179 P
D38305_at	10	0	20	20	17	0.50	2.17	1	0	Inf	176 P
D38048_at	11	1	20	20	18	0.55	2.31	0	0	11.0	173 P
D49387_at	8	1	20	20	18	0.45	2.24	1	0	9.0	173 P
D31765_at	8	1	20	20	18	0.40	1.61	0	0	8.0	172 P
M15182_at	8	2	20	20	18	0.40	1.10	0	0	4.0	171 P
HG4297-HT4567_at	14	2	20	20	18	0.70	2.88	1	0	7.0	170 P
L12350_at	11	0	20	20	18	0.55	2.36	0	0	Inf	170 P
D32050_at	8	2	20	20	18	0.40	1.22	0	0	4.0	166 P
L08246_at	10	2	20	20	18	0.50	1.49	0	1	5.0	166 P
L28010_at	11	1	20	20	18	0.55	2.23	0	0	11.0	165 P
M13450_at	13	0	20	20	18	0.65	2.71	1	0	Inf	165 P
D85245_at	10	2	20	20	18	0.50	2.05	1	0	5.0	160 P
L11708_at	9	3	20	20	18	0.45	1.60	0	0	3.0	159 P
D79991_at	7	1	20	20	18	0.35	1.81	0	0	7.0	158 P
AJ001421_at	10	0	20	20	18	0.50	1.17	0	0	Inf	157 P
D14043_at	11	1	20	20	17	0.55	2.52	0	0	11.0	157 P
D13370_at	10	1	20	20	17	0.50	1.50	0	0	10.0	153 P
K03195_at	10	2	20	20	18	0.50	2.95	3	0	5.0	153 P
L78465_at	11	3	20	20	18	0.55	2.43	2	1	3.7	150 P
D84239_at	10	2	20	20	18	0.50	1.69	0	0	5.0	149 P
D89016_at	8	1	20	20	17	0.40	1.63	0	0	8.0	149 P
M11717_ma1_at	12	3	20	20	18	0.60	2.87	3	1	4.0	146 P
M11726_at	8	1	20	20	18	0.40	1.57	0	0	8.0	145 P
L13197_at	7	0	20	20	18	0.35	1.59	0	0	Inf	144 P

Side 4

## Normal urothellum A

L20773_at	10	3	20	20	18.050	1.40	0	0.33	144 P
HG2614-HT2710_at	7	1	20	20	18.035	1.29	0	0.70	143 P
L36531_at	9	1	20	20	18.045	1.65	0	0.90	142 P
D14686_at	9	2	20	20	18.045	1.25	0	0.45	141 P
D55654_at	9	1	20	20	17.045	1.51	0	0.90	141 P
HG1102-HT1102_at	7	1	20	20	18.035	1.71	0	0.70	140 P
L11669_at	11	2	20	20	17.055	1.37	0	0.55	138 P
L36696_at	7	1	20	20	18.035	1.20	0	0.70	138 P
L41559_at	8	2	20	20	18.040	1.47	0	0.40	138 P
D50911_at	9	2	20	20	18.045	1.29	0	0.45	136 P
D38076_at	7	1	20	20	18.035	1.43	0	0.70	134 P
D86978_at	13	2	20	20	18.065	2.94	2	1.65	133 P
L34587_at	9	1	20	20	18.045	1.38	0	0.90	133 P
AF006041_at	11	3	20	20	18.055	1.49	0	0.37	132 P
D90276_at	8	1	20	20	18.040	1.48	0	0.80	132 P
HG960-HT960_at	10	1	20	20	18.050	1.36	0	0.10.0	132 P
L39064_rna1_at	9	2	20	20	18.045	1.38	0	0.45	132 P
AC002045_xp1_at	8	0	20	20	18.040	1.50	0	0.1nf	128 P
D50912_at	8	1	20	20	18.040	1.42	0	0.80	127 P
D87438_at	8	2	20	20	17.040	1.58	0	0.40	127 P
D28915_at	11	0	20	20	18.055	2.33	1	0.1nf	125 P
HG1602-HT1602_at	7	1	20	20	18.035	0.98	0	0.70	124 P
D21260_at	8	0	20	20	17.040	1.58	0	0.1nf	123 P
D63478_at	9	0	20	20	17.045	2.17	1	0.1nf	123 P
D80005_at	8	2	20	20	18.040	1.84	0	0.40	123 P
D84110_at	14	1	20	20	17.070	2.96	2	0.14.0	123 P
.06132_at	9	3	20	20	18.045	2.09	2	0.30	122 P
.087258_at	9	2	20	20	18.045	1.61	0	0.45	121 P
.01396_at	12	2	20	20	18.060	1.50	0	0.60	121 P
.07033_at	10	2	20	20	18.050	1.90	0	0.50	121 P
.029643_at	10	3	20	20	18.050	1.96	1	0.33	120 P
D50683_at	13	1	20	20	18.065	2.42	0	0.13.0	120 P
D85758_at	9	3	20	20	17.045	1.94	2	0.30	119 P
L19779_at	7	1	20	20	18.035	1.34	0	0.70	119 P
L27706_at	12	2	20	20	18.060	3.22	1	0.60	118 P
L40393_at	9	1	20	20	18.045	2.17	2	0.90	118 P
D83032_at	7	2	20	20	18.035	1.81	3	1.35	117 P
D30755_at	7	2	20	20	18.035	1.53	0	0.35	116 P
D49488_at	14	2	20	20	18.070	3.79	3	0.70	116 P
D83782_at	7	2	20	20	18.035	1.58	1	0.35	116 P
D56495_at	8	0	20	20	18.040	1.57	0	0.1nf	115 P
M13207_at	8	2	20	20	18.040	0.91	0	0.40	115 P
D87673_at	7	1	20	20	17.035	0.94	0	0.70	114 P
M11437_cds2_at	8	0	20	20	18.040	2.10	1	0.1nf	114 P
D21852_at	12	2	20	20	18.060	2.95	2	0.60	113 P
L19183_at	8	2	20	20	18.040	1.49	0	0.40	113 P
L77886_at	12	4	20	20	18.060	2.61	1	0.30	113 P
M18079_at	10	2	20	20	18.050	1.91	1	0.50	113 P
D43950_at	7	1	20	20	18.035	1.79	0	0.70	111 P
D14658_at	8	1	20	20	18.040	1.69	0	0.80	110 P
M18737_rna1_at	8	2	20	20	18.040	1.29	1	0.40	110 P

Side 5

## Normal urothelium A

D78611_at	10	1	20	20	18.050	1.91	1	0.100	109 P
L49169_at	10	0	20	20	17.050	1.50	0	0 Inf	109 P
D00760_at	10	1	20	20	18.050	1.53	0	0.100	107 P
L08666_at	8	2	20	20	17.040	1.26	0	0.40	107 P
AB000115_at	7	1	20	20	18.035	0.97	0	0.70	106 P
D79886_at	9	1	20	20	18.045	1.89	1	0.90	106 P
D86957_at	12	2	20	20	17.060	2.67	1	1.60	106 P
D14683_at	9	0	20	20	18.045	2.11	0	0 Inf	105 P
D42043_at	11	3	20	20	18.055	2.49	0	0.37	104 P
M12759_at	9	1	20	20	18.045	1.95	1	0.80	104 P
HG3510-HT3704_at	9	0	20	20	18.045	1.50	0	0 Inf	103 P
D90086_at	10	1	20	20	18.050	2.04	1	0.100	102 P
D79994_at	8	1	20	20	18.040	1.46	0	0.80	101 P
HG4058-HT4328_at	10	3	20	20	18.050	1.62	1	0.33	100 P
L21936_at	8	0	20	20	18.040	2.02	1	0 Inf	100 P
M11718_at	8	0	20	20	18.040	1.43	0	0 Inf	100 P
D84454_at	7	1	20	20	18.035	1.27	0	0.70	99 P
L04490_at	9	2	20	20	18.045	1.69	1	0.45	99 P
D21851_at	8	1	20	20	17.040	1.34	0	0.80	98 P
HG2274-HT2370_at	7	1	20	20	18.035	1.22	0	0.70	98 P
HG4073-HT4343_at	11	2	20	20	18.055	1.92	1	0.55	97 P
HG4243-HT4513_at	9	1	20	20	18.045	2.06	0	0.90	97 P
HG908-HT908_at	8	1	20	20	18.040	1.04	0	0.80	97 P
HG1879-HT1919_at	9	0	20	20	18.045	2.15	1	0 Inf	96 P
L41668_ma1_at	7	1	20	20	17.035	1.22	0	0.70	96 P
D50640_at	13	2	20	20	18.065	2.89	2	0.65	95 P
HG1869-HT1904_at	9	1	20	20	18.045	1.41	0	0.90	95 P
HG2167-HT2237_at	10	2	20	20	18.050	1.92	0	0.50	95 P
L13391_at	11	0	20	20	18.055	2.08	0	0 Inf	95 P
L16842_at	8	1	20	20	18.040	0.91	0	0.80	95 P
D44466_at	10	1	20	20	18.050	1.47	0	0.100	94 P
D49489_at	11	3	20	20	18.055	2.45	1	0.37	92 P
D85181_at	11	3	20	20	18.055	2.17	1	0.37	92 P
D14878_at	10	2	20	20	18.050	1.95	0	0.50	91 P
D06962_at	12	4	20	20	18.060	1.83	0	1.30	91 P
D21853_at	7	1	20	20	18.035	1.41	1	0.70	90 P
D38549_at	10	3	20	20	17.050	2.39	2	0.33	89 P
D84294_at	10	2	20	20	18.050	2.10	2	1.50	89 P
D87435_at	8	2	20	20	18.040	1.46	0	0.40	89 P
D25278_at	11	2	20	20	17.055	2.02	1	0.55	88 P
D79996_at	10	3	20	20	18.050	1.52	1	0.33	88 P
L12535_at	9	1	20	20	18.045	3.21	3	0.90	88 P
D63480_at	8	1	20	20	18.040	1.90	0	0.80	87 P
D79995_at	7	0	20	20	18.035	1.31	0	0 Inf	87 P
L18314_at	7	1	20	20	17.035	1.39	1	0.70	87 P
L42379_at	9	3	20	20	18.045	1.74	0	0.30	86 P
D30756_at	10	3	20	20	18.050	1.78	2	0.33	84 P
D50857_at	8	2	20	20	18.040	1.48	0	0.40	84 P
HG1112-HT1112_at	8	0	20	20	17.040	1.25	0	0 Inf	82 P
D83004_at	8	2	20	20	18.040	0.98	0	0.40	80 P

Side 6

## Normal urothelium A

D87684_at	10	2	20	20	18	0.50	2.64	3	0.50	80 P
HG2059-HT2114_at	8	1	20	20	18	0.40	1.45	0	0.80	78 P
L29008_at	9	3	20	20	18	0.45	1.84	1	0.30	78 P
D29641_at	9	1	20	20	18	0.45	2.71	3	0.90	77 P
L18972_at	7	1	20	20	18	0.35	1.12	0	0.70	77 P
J04056_at	10	3	20	20	17	0.50	1.73	0	0.33	76 P
L40636_at	7	2	20	20	18	0.35	1.43	0	1.35	76 P
L24470_at	7	1	20	20	18	0.35	0.96	0	0.70	75 P
L40357_at	9	2	20	20	18	0.45	1.40	0	1.45	75 P
L27560_at	9	2	20	20	18	0.45	1.59	1	0.45	74 P
D13639_at	9	2	20	20	18	0.45	1.59	0	0.45	70 P
L43631_at	8	2	20	20	18	0.40	1.65	1	0.40	70 P
D28476_at	8	1	20	20	18	0.40	1.63	0	0.80	69 P
D42123_at	7	1	20	20	18	0.35	1.11	0	0.70	69 P
D88613_at	9	2	20	20	17	0.45	1.38	2	0.45	68 P
D17400_at	9	1	20	20	18	0.45	1.53	0	0.90	67 P
AF012270_at	9	1	20	20	18	0.45	1.39	0	0.90	65 P
D50927_at	8	2	20	20	18	0.45	1.48	0	0.45	65 P
D38521_at	8	2	20	20	17	0.40	1.30	1	0.40	64 P
D38553_at	7	2	20	20	18	0.35	1.61	0	0.35	64 P
D80006_at	8	1	20	20	18	0.40	2.01	1	0.80	64 P
L42542_at	8	1	20	20	17	0.40	1.09	0	0.80	63 P
D14695_at	11	2	20	20	18	0.55	1.49	0	0.55	62 P
L76703_at	8	2	20	20	18	0.40	1.61	2	0.40	62 P
HG4336-HT4606_at	9	2	20	20	18	0.45	1.91	0	0.45	61 P
D50917_at	11	3	20	20	18	0.55	2.24	2	1.37	58 P
D86985_at	12	3	20	20	18	0.60	1.04	0	1.40	58 P
HG4390-HT4650_at	8	1	20	20	18	0.40	1.15	0	0.80	58 P
L33881_at	12	4	20	20	18	0.60	1.80	1	0.30	58 P
D80004_at	7	1	20	20	17	0.35	1.02	0	0.70	57 P
D43767_at	8	2	20	20	17	0.40	0.90	0	0.40	55 P
D50525_at	9	2	20	20	17	0.45	2.21	3	0.45	55 P
L76380_at	11	3	20	20	18	0.55	1.90	0	0.37	55 P
D42087_at	9	3	20	20	18	0.45	2.32	2	1.30	54 P
HG2460-HT2556_at	9	3	20	20	18	0.45	1.85	2	0.30	50 P
L07515_at	8	2	20	20	18	0.40	1.10	0	0.40	50 P
L20591_at	8	2	20	20	18	0.40	1.30	0	2.40	50 P
L77583_at	7	2	20	20	18	0.35	1.69	2	0.35	50 P
D63412_at	8	1	20	20	18	0.40	1.08	0	0.80	48 P
J04162_at	7	2	20	20	18	0.35	1.57	0	0.35	48 P
D15050_at	8	1	20	20	17	0.40	0.97	0	0.80	45 P
L10123_at	10	2	20	20	18	0.50	2.00	2	0.50	45 P
AFFX-HUMISGF3A/M979	9	3	20	20	18	0.45	1.96	0	0.30	44 P
L32183_at	8	2	20	20	18	0.40	1.79	1	0.40	42 P
D14664_at	9	3	20	20	18	0.45	1.51	1	1.30	41 P
D86425_at	9	3	20	20	18	0.45	2.58	2	0.30	37 P
L11695_at	9	2	20	20	18	0.45	1.08	0	0.45	34 P
D63875_at	9	2	20	20	18	0.45	1.25	0	0.45	29 P
L40388_at	9	1	20	20	18	0.45	1.79	0	0.90	23 P
D87443_at	7	2	20	20	18	0.35	1.71	1	0.35	22 P

Side 7

Normal urothelium B																
Gene Name	Positive			Negative			Pairs	IPairs	In Pos	Fract	Log Avg	PM Ex	MM E3	Pos/Neg	Avg Diff	Abs Call
hum_alu_at	69	0	69	69	69	67	1.00	7.56	0	Inf	14	0	Inf	34065	P	
U14973_at	18	0	20	20	20	18	0.90	5.89	1	0	Inf	1	0	Inf	6948	P
AFFX-CreX-3_at	19	1	20	20	20	18	0.95	6.74	0	0	19.0	0	0	Inf	5673	P
U14969_at	20	0	20	20	20	18	1.00	6.25	1	0	Inf	1	0	Inf	5247	P
U14972_at	19	0	20	20	20	18	0.95	5.76	0	0	Inf	0	0	Inf	5247	P
M24194_at	19	0	20	20	20	18	0.95	5.19	0	0	Inf	0	0	Inf	4955	P
M81757_at	18	0	20	20	20	18	0.90	6.35	1	0	Inf	1	0	Inf	4759	P
U14968_at	16	0	20	20	20	18	0.80	6.52	2	0	Inf	2	0	Inf	4706	P
U12465_at	20	0	20	20	20	18	1.00	5.57	0	0	Inf	0	0	Inf	4503	P
M31951_at	15	3	20	20	20	18	0.75	5.49	7	0	5.0	7	0	5.0	4128	P
AFFX-CreX-5_at	20	0	20	20	20	18	1.00	5.75	1	0	Inf	1	0	Inf	3983	P
M60854_at	18	0	20	20	20	18	0.90	6.80	4	0	Inf	4	0	Inf	3548	P
S79522_at	17	0	20	20	20	18	0.85	4.80	2	0	Inf	2	0	Inf	3543	P
M84711_at	17	0	20	20	20	18	0.85	6.85	0	0	Inf	0	0	Inf	3365	P
M64716_at	14	3	20	20	20	18	0.70	3.58	1	0	4.7	1	0	4.7	3345	P
AFFX-HUMGAPDH/M33197_3	19	0	20	20	20	17	0.95	4.60	1	0	Inf	1	0	Inf	3257	P
M77232_ma1_at	16	1	20	20	20	18	0.80	6.08	1	0	16.0	1	0	16.0	3217	P
AFFX-HSAC07/X00351_3_at	16	0	20	20	20	18	0.80	4.43	1	0	Inf	1	0	Inf	3110	P
U49869_ma1_at	19	0	20	20	20	17	0.95	6.26	2	0	Inf	2	0	Inf	3081	P
U58682_at	17	1	20	20	20	18	0.85	5.01	2	0	17.0	2	0	17.0	3033	P
U14971_at	18	0	20	20	20	18	0.90	5.20	0	0	Inf	0	0	Inf	2924	P
U09953_at	18	0	20	20	20	18	0.90	6.63	3	0	Inf	3	0	Inf	2871	P
U14970_at	18	0	20	20	20	18	0.90	5.51	2	0	Inf	2	0	Inf	2723	P
U12404_at	18	0	20	20	20	18	0.90	5.35	1	0	Inf	1	0	Inf	2665	P
M31520_at	17	0	20	20	20	18	0.85	5.17	1	0	3.7	1	0	3.7	2526	P
M32405_at	11	3	20	20	20	18	0.55	2.88	1	0	3.7	1	0	3.7	2461	P
M33680_at	17	0	20	20	20	18	0.85	4.24	2	0	Inf	2	0	Inf	2367	P
M84526_at	13	0	20	20	20	18	0.65	3.35	0	0	Inf	0	0	Inf	2281	P
AFFX-BioDn-3_at	15	2	20	20	20	17	0.75	3.46	0	0	7.5	0	0	7.5	2202	P
U25789_at	17	1	20	20	20	18	0.85	5.37	0	0	17.0	0	0	17.0	2092	P
S73591_at	15	0	20	20	20	18	0.75	4.61	1	0	Inf	1	0	Inf	1714	P
U15008_at	13	2	20	20	20	18	0.65	3.24	0	0	6.5	0	0	6.5	1556	P
M26880_at	15	0	20	20	20	18	0.75	4.49	2	0	Inf	2	0	Inf	1454	P
U31875_at	16	0	20	20	20	18	0.80	4.06	0	0	Inf	0	0	Inf	1358	P
AFFX-HSAC07/X00351_M_at	15	1	20	20	20	18	0.75	3.17	0	0	15.0	0	0	15.0	1261	P
M63138_at	8	1	20	20	20	18	0.40	1.84	0	0	8.0	0	0	8.0	1215	P
M63379_at	15	0	20	20	20	18	0.75	3.69	1	0	Inf	1	0	Inf	1169	P
M57710_at	17	0	20	20	20	17	0.85	4.16	0	0	Inf	0	0	Inf	1035	P
U50523_at	13	3	20	20	20	18	0.65	3.04	1	1	4.3	1	1	4.3	946	P
M95787_at	12	0	20	20	20	18	0.60	2.32	0	0	Inf	0	0	Inf	944	P
AFFX-HSAC07/X00351_5_at	13	1	20	20	20	18	0.65	2.89	0	0	13.0	0	0	13.0	943	P
M27891_at	11	2	20	20	20	18	0.55	1.99	0	0	5.5	0	0	5.5	866	P
U21931_at	14	0	20	20	20	17	0.70	4.30	3	0	Inf	3	0	Inf	805	P
U44839_at	11	3	20	20	20	18	0.55	1.70	0	0	3.7	0	0	3.7	779	P
M23613_at	11	2	20	20	20	18	0.55	1.96	0	0	5.5	0	0	5.5	779	P
M34182_at	12	2	20	20	20	18	0.60	1.24	0	0	6.0	0	0	6.0	772	P
U46692_ma1_at	13	2	20	20	20	18	0.65	3.05	0	0	6.5	0	0	6.5	746	P
U37690_at	12	0	20	20	20	18	0.60	2.01	0	0	Inf	0	0	Inf	688	P
M80563_at	11	0	20	20	20	18	0.55	2.34	0	0	Inf	0	0	Inf	678	P
U41635_at	8	1	20	20	20	18	0.40	1.75	0	0	8.0	0	0	8.0	658	P

Side 1

Normal urothelium B

U46751_at	10	2	20	20	18 0.50	2.76	1	0 5.0	644 P
U03057_at	8	2	20	20	18 0.40	1.23	0	0 4.0	643 P
S65738_at	14	1	20	20	18 0.70	3.33	0	0 14.0	621 P
S77356_at	13	3	20	20	18 0.65	2.78	0	0 4.3	615 P
AFHX-HUNGAPDH/M33197_A	12	3	20	20	17 0.60	2.00	0	0 4.0	614 P
U62739_at	10	2	20	20	18 0.50	1.95	0	0 5.0	612 P
S75463_at	9	2	20	20	18 0.45	1.83	1	0 4.5	596 P
U62962_at	11	2	20	20	18 0.55	2.04	0	0 5.5	595 P
M35878_at	12	3	20	20	18 0.60	1.70	0	1 4.0	577 P
U46570_at	8	1	20	20	18 0.40	1.28	0	0 8.0	550 P
AFHX-HUNGAPDH/M33197_5	12	0	20	20	18 0.60	2.95	0	0 Inf	539 P
U11861_at	10	2	20	20	18 0.50	1.58	0	0 5.0	536 P
M57567_at	10	2	20	20	18 0.50	1.25	0	0 10.0	525 P
U01212_at	10	2	20	20	18 0.50	1.25	0	0 5.0	517 P
U03398_at	10	3	20	20	18 0.50	2.46	2	0 3.3	500 P
U45975_at	7	2	20	20	18 0.35	1.31	0	0 3.5	485 P
U46499_at	10	3	20	20	17 0.50	1.65	0	0 3.3	484 P
M76378_at	8	2	20	20	18 0.40	1.16	0	0 4.0	476 P
M55593_at	10	1	20	20	18 0.50	2.09	1	0 10.0	471 P
U09117_at	7	2	20	20	18 0.35	1.38	0	0 3.5	464 P
U46025_at	11	2	20	20	18 0.55	1.76	1	0 5.5	463 P
U51478_at	13	1	20	20	18 0.65	3.39	0	0 13.0	459 P
M28877_at	10	0	20	20	18 0.50	1.79	1	0 Inf	457 P
M32053_at	9	1	20	20	18 0.45	1.90	0	0 9.0	452 P
AFHX-BioC-5_at	8	1	20	20	18 0.40	1.19	0	0 8.0	434 P
U09813_at	12	1	20	20	18 0.60	2.90	0	0 12.0	434 P
M97815_at	9	2	20	20	18 0.45	1.38	0	0 4.5	431 P
M88279_at	11	0	20	20	18 0.55	2.28	0	0 Inf	428 P
S73149_at	8	1	20	20	18 0.40	1.14	0	0 8.0	424 P
M84349_at	11	2	20	20	18 0.55	2.40	0	0 5.5	415 P
U29656_at	7	0	20	20	18 0.35	1.70	0	0 Inf	412 P
U37889_at	10	0	20	20	18 0.50	1.42	0	0 Inf	406 P
M22382_at	9	0	20	20	18 0.45	1.45	0	0 Inf	396 P
S68616_at	8	2	20	20	18 0.40	1.37	0	0 4.0	391 P
M86400_at	11	1	20	20	18 0.55	2.44	1	0 11.0	387 P
U57342_at	9	1	20	20	18 0.45	1.93	0	0 9.0	387 P
M60858_ma1_at	10	2	20	20	18 0.50	2.42	0	0 5.0	376 P
AFHX-BioOn-5_at	9	0	20	20	18 0.45	1.37	0	0 Inf	373 P
M84332_at	10	1	20	20	18 0.50	1.49	0	0 10.0	370 P
M38690_at	10	0	20	20	18 0.50	2.51	1	0 Inf	367 P
M22538_at	7	0	20	20	18 0.35	1.00	0	0 Inf	365 P
U57450_at	10	0	20	20	18 0.50	1.17	0	0 Inf	365 P
U30825_at	11	3	20	20	18 0.55	1.59	0	0 3.7	355 P
M75126_at	9	1	20	20	18 0.45	1.67	0	0 9.0	347 P
M95627_at	7	0	20	20	18 0.35	1.50	0	0 Inf	344 P
U50136_ma1_at	8	2	20	20	18 0.40	1.16	0	0 4.0	338 P
U14603_at	12	0	20	20	18 0.60	2.56	0	0 Inf	337 P
M75099_at	9	0	20	20	18 0.45	2.03	0	0 Inf	336 P
U33821_at	10	1	20	20	18 0.50	1.67	0	0 10.0	336 P
U21128_at	12	3	20	20	18 0.60	2.20	1	1 4.0	327 P
M28713_at	7	1	20	20	18 0.35	1.35	0	0 7.0	324 P
U37519_at	7	2	20	20	18 0.35	1.68	0	0 3.5	321 P

Side 2

## Normal urothelium B

M73547_at	12	4	20	20	18.060	2.03	1	0.30	318 P
M96803_at	12	2	20	20	18.060	1.31	0	1.60	310 P
U41371_at	12	1	20	20	18.060	2.45	0	0.120	310 P
AFFX-HSAC07/X00351_3_at	13	0	20	20	17.065	2.19	0	0.1nf	303 P
M94345_at	10	2	20	20	18.050	1.48	0	0.50	302 P
U02493_at	8	0	20	20	18.040	1.74	0	0.1nf	302 P
M58285_at	8	0	20	20	18.040	1.16	0	0.1nf	293 P
U02570_at	7	1	20	20	18.035	1.53	0	0.70	293 P
AFFX-BipC-3_at	7	1	20	20	18.035	1.33	0	0.70	292 P
M62831_at	8	0	20	20	18.040	1.16	0	0.1nf	291 P
U32944_at	13	1	20	20	18.065	3.00	2	0.130	290 P
U52522_at	7	2	20	20	18.035	1.74	0	0.35	288 P
M88338_at	7	1	20	20	18.035	0.97	0	0.70	283 P
M77349_at	14	0	20	20	18.070	2.49	0	0.1nf	277 P
U29607_at	13	3	20	20	18.065	2.26	2	1.43	276 P
M31303_rna1_at	9	2	20	20	18.045	1.63	0	0.45	274 P
M58459_at	11	1	20	20	18.055	2.84	2	0.110	271 P
M63959_at	10	2	20	20	18.050	1.26	0	0.50	270 P
M24899_at	10	2	20	20	18.050	1.56	0	0.50	269 P
U07857_at	13	2	20	20	17.065	2.51	0	1.65	269 P
U30888_at	10	2	20	20	18.050	1.49	0	0.50	266 P
M81780_cds5_at	8	1	20	20	18.040	1.13	0	0.80	258 P
M23254_at	11	3	20	20	17.055	1.64	0	0.37	256 P
U05659_at	10	2	20	20	18.050	1.74	1	1.50	256 P
U49785_at	12	1	20	20	18.060	2.29	0	0.120	256 P
U10323_at	10	1	20	20	17.050	2.08	0	0.100	254 P
M64347_at	7	1	20	20	18.035	1.70	2	1.70	253 P
U20285_at	9	2	20	20	18.045	1.32	0	0.45	246 P
U43286_at	11	0	20	20	18.055	2.55	1	0.1nf	246 P
M82809_at	13	1	20	20	18.065	2.26	0	0.130	243 P
M96859_at	10	3	20	20	18.050	2.22	1	0.33	243 P
U56637_at	7	2	20	20	17.035	1.37	0	1.35	240 P
U40990_at	7	0	20	20	18.035	1.09	0	0.1nf	238 P
U49082_at	8	2	20	20	18.040	0.93	0	0.40	227 P
M91029_cds2_at	7	2	20	20	18.035	1.32	0	0.35	224 P
U52100_at	7	1	20	20	18.035	1.25	0	0.70	224 P
U40998_at	8	2	20	20	18.040	1.32	0	0.40	221 P
M90299_at	8	2	20	20	18.040	1.20	0	0.40	220 P
S71824_at	7	1	20	20	18.035	1.30	0	0.70	220 P
M31627_at	11	2	20	20	18.055	1.69	0	0.55	219 P
M83751_at	7	2	20	20	17.035	1.46	0	0.35	219 P
U43077_at	8	1	20	20	18.040	1.58	0	0.80	216 P
M29960_at	10	2	20	20	18.050	1.52	2	0.50	215 P
M92449_at	10	2	20	20	18.050	1.94	1	0.50	212 P
M29536_at	11	2	20	20	18.055	1.95	0	0.55	207 P
S81083_cds1_at	7	1	20	20	18.035	1.07	0	0.70	207 P
M81601_at	7	1	20	20	18.035	1.55	0	0.70	205 P
U50535_at	11	3	20	20	18.055	2.10	0	0.37	203 P
M67284_at	9	2	20	20	18.045	1.41	0	0.45	202 P
U24152_at	7	2	20	20	18.035	1.43	0	0.35	199 P
U51678_at	10	3	20	20	18.050	1.77	0	0.33	199 P
M64571_at	9	2	20	20	18.045	1.43	0	0.45	197 P

Side 3



## Normal urothelium B

574017_at	10	2	20	20	20	18 0.50	1.59	0	0.50	196 P
U38846_at	8	1	20	20	20	18 0.40	1.39	0	0.60	196 P
M32313_at	9	1	20	20	20	18 0.45	1.62	1	0.90	194 P
U43148_at	8	1	20	20	20	18 0.40	1.08	0	0.80	191 P
M55543_at	8	2	20	20	20	18 0.40	1.53	0	0.40	189 P
U37122_at	9	2	20	20	20	17 0.45	1.45	0	0.45	188 P
M37245_at	10	1	20	20	20	18 0.50	1.81	0	0.10.0	186 P
U34962_at	9	1	20	20	20	18 0.45	1.53	0	0.90	186 P
M94556_at	10	3	20	20	20	18 0.50	1.78	1	0.33	183 P
M31013_at	11	2	20	20	20	17 0.55	2.34	1	0.55	175 P
U15174_at	7	1	20	20	20	18 0.35	1.30	0	1.70	173 P
M94856_at	8	1	20	20	20	18 0.40	1.88	1	0.80	172 P
U00952_at	9	1	20	20	20	17 0.45	2.14	0	0.90	170 P
U14193_at	8	2	20	20	20	18 0.40	1.46	0	0.40	170 P
U40343_at	7	1	20	20	20	18 0.35	1.29	0	0.70	170 P
U02020_at	9	3	20	20	20	18 0.45	2.42	1	0.30	168 P
U36764_at	10	3	20	20	20	18 0.50	1.60	1	0.33	167 P
M86667_at	9	3	20	20	20	18 0.45	1.42	0	0.30	166 P
S69115_at	7	1	20	20	20	18 0.35	2.01	1	0.70	166 P
M29971_at	8	1	20	20	20	18 0.40	0.94	0	0.80	165 P
U18937_at	7	2	20	20	20	18 0.35	1.54	0	1.35	164 P
U31384_at	8	2	20	20	20	18 0.40	1.12	0	0.40	161 P
S83364_at	9	2	20	20	20	18 0.45	1.55	0	0.45	159 P
U54778_at	9	3	20	20	20	18 0.45	1.93	1	0.30	159 P
U03486_at	7	0	20	20	20	18 0.35	0.91	0	0.Inf	158 P
M74002_at	7	1	20	20	20	18 0.35	1.06	0	0.70	157 P
U20325_at	7	2	20	20	20	18 0.35	1.74	1	0.35	157 P
M80629_at	11	1	20	20	20	18 0.55	1.58	0	0.11.0	156 P
U20582_at	7	1	20	20	20	18 0.35	1.01	0	0.70	154 P
U27185_at	9	2	20	20	20	18 0.45	1.57	0	0.45	152 P
U57721_at	10	1	20	20	20	18 0.50	2.47	1	0.10.0	150 P
M34423_at	8	1	20	20	20	18 0.40	1.03	0	0.80	149 P
U47742_at	8	1	20	20	20	17 0.40	1.12	0	0.80	149 P
U34252_at	10	3	20	20	20	18 0.50	2.26	2	0.33	148 P
U30999_at	9	3	20	20	20	17 0.45	1.48	0	0.30	146 P
U53446_at	9	2	20	20	20	18 0.45	1.43	0	0.45	145 P
S81419_at	7	2	20	20	20	18 0.35	1.38	0	0.35	143 P
U31383_at	9	3	20	20	20	18 0.45	1.62	1	0.30	142 P
U29680_at	8	2	20	20	20	18 0.40	1.47	0	0.40	139 P
M58603_at	8	2	20	20	20	18 0.40	1.47	0	0.40	139 P
M93425_at	9	1	20	20	20	18 0.45	1.39	0	0.90	137 P
U21049_at	9	1	20	20	20	18 0.45	1.31	0	0.90	130 P
U59919_at	9	2	20	20	20	18 0.45	1.33	0	0.45	128 P
S76965_at	8	1	20	20	20	18 0.40	2.11	0	0.80	123 P
M28879_at	9	2	20	20	20	18 0.45	1.50	2	0.45	122 P
U15782_at	7	2	20	20	20	18 0.35	1.53	1	0.35	122 P
M85276_at	8	2	20	20	20	18 0.40	0.90	0	0.40	120 P
U03688_at	8	1	20	20	20	18 0.40	1.65	0	0.80	116 P
U28249_at	7	1	20	20	20	18 0.35	1.69	1	0.70	115 P
U08316_at	9	3	20	20	20	18 0.45	1.62	0	0.30	113 P
U07158_at	8	2	20	20	20	18 0.40	1.19	1	1.40	111 P
U40369_rna1_at	9	2	20	20	20	18 0.45	1.75	0	1.45	111 P

Side 4

Normal urothelium B									
U49352_at	12	3	20	20	18 0.60	2.61	2	0.4.0	111 P
U59423_at	7	2	20	20	18 0.35	1.31	0	0.3.5	107 P
M65131_mal_at	7	1	20	20	18 0.35	1.23	0	0.7.0	102 P
U09412_at	8	2	20	20	18 0.40	1.05	0	0.4.0	98 P
U50928_at	11	1	20	20	18 0.55	1.92	1	1 11.0	98 P
U49114_at	10	3	20	20	18 0.50	1.51	1	0.3.3	96 P
U02632_at	9	2	20	20	18 0.45	1.22	0	0.4.5	90 P
U19345_at	7	1	20	20	18 0.35	1.53	0	0.7.0	87 P
U53003_at	9	3	20	20	18 0.45	1.78	1	0.3.0	82 P
U13616_at	9	3	20	20	18 0.45	1.45	2	1 3.0	78 P
U47054_at	7	2	20	20	18 0.35	1.58	2	0.3.5	78 P
M23161_at	8	1	20	20	18 0.40	1.14	0	0.8.0	77 P
M90696_at	9	1	20	20	18 0.45	1.46	2	0.9.0	76 P
U46752_at	8	2	20	20	18 0.40	1.14	0	0.4.0	76 P
U03056_at	7	2	20	20	18 0.35	1.44	2	0.3.5	70 P
U28386_at	9	2	20	20	18 0.45	1.66	1	0.4.5	69 P
U55766_at	7	1	20	20	18 0.35	0.96	0	1 7.0	69 P
U09367_at	8	2	20	20	18 0.40	0.92	0	0.4.0	67 P
U31116_at	7	2	20	20	18 0.35	1.42	1	0.3.5	67 P
U35735_at	7	1	20	20	18 0.35	1.17	0	0.7.0	65 P
U05875_at	7	2	20	20	18 0.35	1.52	0	0.3.5	37 P

Normal urothelium C											
Gene Name	Positive	Negative	Pairs	Pairs Used	InAv Pos	Fract Log Avg	PM Exces-MM	Exces Pos/Neg	Avg Diff	Abs Call	
hum_alu_at	69	0	69	69	67.100	7.20	9	0 Inf	22212 P		
Z12662_at	18	0	20	20	18.090	7.43	5	0 Inf	11237 P		
X56932_at	20	0	20	20	18.100	8.65	9	0 Inf	8427 P		
Z70759_at	20	0	20	20	18.100	8.49	8	0 Inf	8169 P		
X69150_at	19	0	20	20	18.095	7.61	8	0 Inf	6897 P		
X15940_at	19	0	20	20	18.095	7.00	4	0 Inf	5994 P		
X06617_at	20	0	20	20	18.100	6.37	1	0 Inf	5392 P		
X03342_at	20	0	20	20	18.100	7.66	5	0 Inf	5147 P		
AFFX-CreX-3_at	19	0	20	20	18.095	8.47	6	0 Inf	4809 P		
X17206_at	19	0	20	20	18.095	7.56	6	0 Inf	4634 P		
X64707_at	15	0	20	20	18.075	6.10	3	0 Inf	4230 P		
Z23090_at	17	0	20	20	18.085	5.02	0	0 Inf	4116 P		
X62691_at	20	0	20	20	18.100	7.40	3	0 Inf	4105 P		
X65614_at	20	0	20	20	18.100	7.02	2	0 Inf	4027 P		
AB002533_at	19	0	20	20	18.095	6.88	4	0 Inf	4012 P		
X16064_at	17	0	20	20	18.085	7.60	4	0 Inf	3785 P		
X63527_at	20	0	20	20	18.100	7.94	9	0 Inf	3755 P		
X55954_at	20	0	20	20	18.100	7.24	4	0 Inf	3744 P		
AFFX-CreX-5_at	20	0	20	20	18.100	8.02	5	0 Inf	3538 P		
X80822_at	18	0	20	20	18.090	5.48	0	0 Inf	3471 P		
X67247_ma1_at	20	0	20	20	17.100	8.00	6	0 Inf	3402 P		
Z26876_at	19	0	20	20	18.095	7.54	5	0 Inf	3163 P		
X73460_at	19	0	20	20	18.095	6.44	4	0 Inf	3009 P		
X53777_at	18	1	20	20	18.090	7.48	6	0 18.0	2851 P		
X79234_at	20	0	20	20	18.100	7.49	3	0 Inf	2843 P		
AFFX-HSAC07/X00351_3_at	19	0	20	20	18.095	6.48	2	0 Inf	2664 P		
X69391_at	20	0	20	20	18.100	6.86	4	0 Inf	2656 P		
AFFX-BioDr-3_at	18	0	20	20	18.090	5.07	0	0 Inf	2613 P		
Z28407_at	15	1	20	20	17.095	4.43	1	0 15.0	2557 P		
AFFX-HUMGAPDH/M33197_3_a	19	0	20	20	18.090	5.41	0	0 Inf	2535 P		
U78027_ma3_at	18	2	20	20	18.080	7.15	4	0 9.0	2430 P		
Z25749_ma1_at	16	1	20	20	18.100	8.13	7	0 Inf	2348 P		
X00274_at	20	0	20	20	18.095	5.12	2	0 Inf	2334 P		
X56997_ma1_at	19	0	20	20	18.090	7.34	5	0 Inf	2279 P		
Y00705_at	18	0	20	20	18.085	5.96	2	0 Inf	2124 P		
:55715_at	17	0	20	20	18.090	6.05	0	0 Inf	1884 P		
07755_at	18	0	20	20	17.075	5.36	2	0 7.5	1877 P		
52986_at	15	2	20	20	18.100	6.46	1	0 Inf	1485 P		
:52851_ma1_at	20	0	20	20	18.085	5.76	2	0 Inf	1384 P		
(15183_at	17	2	20	20	18.080	5.04	3	1 8.5	1273 P		
X93036_at	16	0	20	20	18.070	4.70	2	0 Inf	1232 P		
X95404_at	14	0	20	20	18.070	4.70	2	0 Inf	1170 P		
X57959_at	19	0	20	20	17.095	7.19	3	0 Inf	1125 P		
X15341_at	19	0	20	20	18.095	6.40	0	0 Inf	1071 P		
AFFX-HSAC07/X00351_M_at	16	1	20	20	18.080	4.07	0	0 16.0	1036 P		
Y00433_at	14	0	20	20	18.070	4.15	0	0 Inf	1027 P		
X60489_at	17	0	20	20	18.085	5.73	2	0 Inf	996 P		
U90915_at	17	0	20	20	18.085	5.47	2	0 Inf	988 P		
X16560_at	18	1	20	20	18.090	6.30	4	0 18.0	983 P		
X16832_at	16	0	20	20	18.080	5.03	1	0 Inf	971 P		
X80909_at	17	0	20	20	18.085	5.63	1	0 Inf	939 P		

Side 1

Normal urothelium C									
X15822_at	17	0	20	20	18 0.85	4.56	3	0 Inf	830 P
AF001548_ma1_at	13	1	20	20	18 0.65	3.77	0	0 13.0	826 P
U93205_at	15	0	20	20	18 0.75	3.20	0	0 Inf	818 P
X13839_at	17	3	20	20	18 0.85	4.84	0	0 5.7	801 P
X12447_at	12	1	20	20	18 0.80	2.54	1	0 12.0	797 P
Y00503_at	18	0	20	20	18 0.90	4.80	1	0 Inf	772 P
X51466_at	16	0	20	20	18 0.80	3.85	0	0 Inf	758 P
X68314_at	16	0	20	20	17 0.80	3.82	0	0 Inf	739 P
AF001548_ma1_at	15	1	20	20	18 0.75	3.33	0	0 15.0	710 P
AF001548_ma1_at	14	2	20	20	18 0.70	2.74	0	0 7.0	682 P
AF001548_ma1_at	13	1	20	20	18 0.65	3.61	0	0 13.0	645 P
X01630_at	16	1	20	20	17 0.80	4.22	0	0 16.0	637 P
X62654_ma1_at	19	0	20	20	18 0.95	5.08	0	0 Inf	608 P
X67951_at	13	3	20	20	18 0.65	3.07	0	0 4.3	604 P
Z84721_cd32_at	14	1	20	20	18 0.70	2.56	0	0 14.0	575 P
U87171_at	14	1	20	20	17 0.90	6.10	2	0 Inf	559 P
U94586_at	18	0	20	20	17 0.70	3.12	0	0 Inf	553 P
L20688_at	14	0	20	20	18 0.60	2.68	1	0 6.0	527 P
X56494_at	12	2	20	20	18 0.60	3.28	0	0 12.0	512 P
AF001548_ma1_at	12	1	20	20	18 0.90	5.60	2	0 18.0	508 P
X13794_ma1_at	18	1	20	20	18 0.70	2.94	0	0 Inf	499 P
X71973_at	14	0	20	20	18 0.65	2.55	0	0 Inf	492 P
X82693_at	13	0	20	20	18 0.75	2.89	0	0 15.0	488 P
X71874_cd31_at	15	1	20	20	18 0.60	2.95	1	0 Inf	487 P
X55733_at	12	0	20	20	17 0.80	4.62	0	0 16.0	485 P
X51521_at	16	1	20	20	18 0.80	4.65	1	0 Inf	484 P
X07979_at	16	0	20	20	18 0.65	3.47	0	0 Inf	449 P
AF001548_ma1_at	13	0	20	20	18 1.00	5.05	0	0 Inf	447 P
Y00572_at	20	0	20	20	18 0.90	4.22	1	0 Inf	435 P
Y00282_at	18	0	20	20	18 0.65	2.64	0	0 Inf	433 P
U78095_at	13	0	20	20	18 0.50	5.43	1	0 Inf	428 P
X02317_at	18	0	20	20	18 0.50	1.45	0	0 5.0	417 P
U79294_at	10	2	20	20	18 0.65	2.49	0	0 6.5	411 P
U73843_at	13	2	20	20	17 0.70	3.92	0	0 14.0	409 P
X80200_at	14	1	20	20	18 0.75	3.89	0	0 7.5	404 P
AF001548_ma1_at	15	2	20	20	18 0.55	2.55	0	0 5.5	403 P
AF001548_ma1_at	11	2	20	20	18 0.70	4.06	2	1 7.0	400 P
X03100_cd32_at	14	2	20	20	18 0.65	3.47	0	0 13.0	397 P
X77584_at	13	1	20	20	18 0.80	3.53	1	0 8.0	395 P
AF001548_ma1_at	16	2	20	20	18 0.70	3.46	1	0 7.0	395 P
X81817_at	14	2	20	20	18 0.70	2.83	0	0 Inf	393 P
Z21507_at	14	0	20	20	17 0.55	2.48	1	0 11.0	374 P
U77604_at	11	1	20	20	18 0.60	2.55	1	0 4.0	374 P
X02152_at	12	3	20	20	18 0.85	3.10	0	0 Inf	372 P
Y67698_at	17	0	20	20	18 0.75	2.37	1	1 5.0	370 P
Y6182_at	15	3	20	20	18 0.75	4.06	2	0 15.0	366 P
Y6182_at	15	1	20	20	18 0.55	1.96	0	0 5.5	362 P
Y6550_at	11	2	20	20	18 0.50	2.70	3	0 10.0	359 P
Y6550_at	10	1	20	20	18 0.65	2.89	0	0 Inf	357 P
U72511_at	13	0	20	20	18 0.55	2.18	0	0 11.0	355 P
X99688_at	11	1	20	20	17 0.60	2.08	0	0 3.0	351 P
J02783_at	12	4	20	20	18 0.60	3.33	1	0 12.0	342 P
U85611_at	12	1	20	20	18 0.75	3.31	1	0 7.5	342 P
X76013_at	15	2	20	20	18 0.75	3.31	1	0 7.5	342 P

Normal urothelium C										
X13238_at	15	1	20	20	18.075	4.48	0	0	0.15.0	339 P
X59892_at	11	1	20	20	18.055	2.32	0	0	0.11.0	338 P
Y00764_at	16	1	20	20	18.080	4.86	0	0	0.16.0	335 P
X59417_at	13	0	20	20	18.065	3.47	1	1	0 Inf	327 P
X16135_at	11	3	20	20	18.055	2.42	0	0	0.3.7	326 P
Z48950_at	16	1	20	20	18.080	3.45	0	0	0.16.0	308 P
X75252_at	11	1	20	20	18.055	2.58	0	0	0.11.0	307 P
U90313_at	13	0	20	20	18.065	3.28	1	1	0 Inf	295 P
X66809_at	9	1	20	20	18.045	1.66	0	0	0.9.0	295 P
U78521_at	9	3	20	20	18.045	1.36	0	0	0.3.0	294 P
Z32765_at	12	3	20	20	18.060	1.79	0	0	0.4.0	294 P
Z48199_at	9	0	20	20	18.045	2.00	0	0	0 Inf	294 P
X53331_at	14	0	20	20	18.070	3.12	0	0	0 Inf	293 P
X69908_ma1_at	10	3	20	20	18.050	2.47	0	0	0.3.3	292 P
X75861_at	12	0	20	20	18.060	3.38	0	0	0 Inf	290 P
AFFX-BioC-3_at	13	2	20	20	18.065	2.47	0	0	0.6.5	287 P
X69111_at	13	3	20	20	18.065	2.18	0	0	0.4.3	284 P
X17042_at	13	0	20	20	18.065	4.02	1	1	0 Inf	280 P
X60221_at	17	2	20	20	18.085	3.05	0	0	0.8.5	278 P
U84569_at	10	2	20	20	17.050	1.74	0	0	0.5.0	270 P
U73824_at	15	0	20	20	18.075	3.98	1	1	0 Inf	268 P
X15880_at	9	2	20	20	18.045	2.53	0	0	0.4.5	267 P
X91257_at	11	0	20	20	18.055	2.57	0	0	0 Inf	266 P
X56253_ma1_at	10	2	20	20	18.050	1.39	0	0	1.5.0	263 P
U94855_at	15	1	20	20	17.075	4.00	2	2	0.15.0	259 P
X91504_at	10	1	20	20	17.050	1.34	0	0	0.10.0	256 P
X87838_at	16	1	20	20	17.080	3.65	1	1	0.16.0	255 P
U86529_at	9	0	20	20	18.045	1.84	0	0	0 Inf	252 P
U72512_at	7	0	20	20	17.035	1.27	0	0	0 Inf	251 P
X74104_at	14	1	20	20	18.070	3.37	1	1	0.14.0	249 P
U66879_at	11	2	20	20	18.055	2.30	0	0	0.5.5	246 P
X04085_ma1_at	11	2	20	20	18.055	2.04	0	0	0.5.5	246 P
X04412_at	9	1	20	20	18.045	2.03	0	0	0.9.0	246 P
Y00281_at	10	0	20	20	18.050	2.36	0	0	0 Inf	244 P
Z27113_at	10	1	20	20	18.050	1.98	0	0	0.10.0	241 P
X78136_at	12	2	20	20	18.060	3.45	1	1	0.6.0	240 P
X86779_at	8	1	20	20	18.040	1.38	0	0	0.8.0	236 P
D13146_cds1_at	10	1	20	20	18.050	1.62	0	0	0.10.0	235 P
X71428_at	12	3	20	20	18.060	2.10	1	1	0.4.0	230 P
U70063_at	11	1	20	20	18.055	2.39	0	0	0.11.0	229 P
U88964_at	12	1	20	20	18.060	2.85	0	0	0.12.0	229 P
U83115_at	12	3	20	20	18.060	1.65	0	0	1.4.0	228 P
X62466_at	12	0	20	20	17.060	2.49	0	0	0 Inf	224 P
X69699_at	9	2	20	20	18.045	2.02	0	0	0.4.5	221 P
U90878_at	13	2	20	20	18.065	2.60	0	0	0.6.5	220 P
X13546_ma1_at	12	1	20	20	17.060	2.45	0	0	0.12.0	216 P
U77948_at	11	1	20	20	18.055	2.66	1	1	0.11.0	215 P
X86693_at	12	2	20	20	18.060	3.16	2	2	0.6.0	212 P
X74801_at	10	1	20	20	18.050	2.36	0	0	0.10.0	211 P
598199_at	11	1	20	20	18.055	2.91	0	0	0.11.0	209 P
59834_at	13	3	20	20	18.065	3.06	1	1	0.4.3	208 P
59834_at	8	2	20	20	18.040	1.54	0	0	0.4.0	207 P
59834_at	7	0	20	20	18.035	1.18	0	0	0 Inf	207 P

Normal urothelium C																		
L10413_at	10	0	20	20	20	18.050	2.06	0	0	Inf	206 P							
U68566_at	9	2	20	20	20	18.045	1.55	0	0	4.5	203 P							
U90716_at	11	2	20	20	20	18.055	3.01	3	3	1.55	203 P							
X83618_at	12	1	20	20	20	18.060	1.90	0	0	12.0	202 P							
X83425_at	9	2	20	20	20	18.045	1.86	0	0	4.5	201 P							
X12794_at	9	1	20	20	20	18.045	1.47	0	0	0.90	197 P							
X60036_at	14	2	20	20	20	18.070	2.41	0	0	17.0	196 P							
X67325_at	10	2	20	20	20	18.050	2.46	0	0	0.50	194 P							
U68142_at	11	1	20	20	20	18.055	2.42	0	0	0.11.0	193 P							
X52730_ma1_at	8	1	20	20	20	18.040	1.28	0	0	0.80	192 P							
X57346_at	16	0	20	20	20	17.080	3.12	0	0	0 Inf	191 P							
X74795_at	9	2	20	20	20	17.045	1.61	0	0	0.45	190 P							
X82456_at	13	2	20	20	20	18.065	3.07	0	0	0.65	190 P							
X83218_at	16	0	20	20	20	17.080	3.40	0	0	0.80	190 P							
U79254_at	14	0	20	20	20	18.070	2.90	0	0	0 Inf	188 P							
U66401_cds1_at	11	2	20	20	20	18.055	3.24	1	1	0.55	188 P							
Z35093_at	10	0	20	20	20	18.050	2.48	0	0	0 Inf	188 P							
X54304_at	10	0	20	20	20	18.050	2.85	1	1	0 Inf	187 P							
X95586_at	12	1	20	20	20	18.060	2.55	1	1	0.12.0	187 P							
X70476_at	13	2	20	20	20	18.065	3.26	1	1	0.65	186 P							
X68733_ma1_at	7	1	20	20	20	18.035	1.53	0	0	0.70	185 P							
U73379_at	11	2	20	20	20	17.055	1.92	0	0	0.55	181 P							
U77396_at	10	2	20	20	20	18.050	2.09	0	0	0.50	180 P							
X17620_at	7	1	20	20	20	18.035	1.16	0	0	0.70	178 P							
X69910_at	13	2	20	20	20	18.065	2.25	0	0	0.65	176 P							
X99459_at	8	1	20	20	20	18.040	1.40	0	0	0.80	176 P							
X98920_at	12	1	20	20	20	18.060	1.52	0	0	1.12.0	176 P							
X15414_at	12	0	20	20	20	17.060	2.21	0	0	0 Inf	174 P							
Z29505_at	15	1	20	20	20	18.075	3.40	1	1	1.15.0	174 P							
Z37986_at	11	2	20	20	20	18.055	1.92	0	0	0.55	174 P							
Z19574_ma1_at	14	0	20	20	20	17.070	2.84	0	0	0 Inf	173 P							
U78525_at	7	0	20	20	20	18.035	1.45	0	0	0 Inf	172 P							
X59434_at	10	2	20	20	20	18.050	1.34	0	0	0.50	172 P							
Y11681_at	9	1	20	20	20	18.045	1.54	0	0	0.90	172 P							
X99209_at	9	2	20	20	20	18.045	1.65	0	0	0.45	170 P							
U72515_at	7	1	20	20	20	18.035	1.29	0	0	0.70	166 P							
U70660_at	11	2	20	20	20	17.055	1.80	0	0	0.55	160 P							
X61970_at	11	2	20	20	20	18.055	2.56	0	0	0.55	159 P							
U94592_at	13	2	20	20	20	17.065	2.02	0	0	0.65	158 P							
X62078_at	12	1	20	20	20	18.060	1.64	0	0	0.12.0	157 P							
U82010_ma1_at	11	1	20	20	20	18.055	2.44	0	0	0.11.0	156 P							
X63422_at	10	1	20	20	20	18.050	2.41	0	0	0.10.0	156 P							
X72964_at	11	3	20	20	20	18.055	2.46	1	1	1.3.7	153 P							
X76228_at	8	2	20	20	20	18.040	1.04	0	0	0.40	152 P							
U83246_at	7	1	20	20	20	18.035	1.07	0	0	0.70	148 P							
U78266_at	9	0	20	20	20	17.045	2.01	0	0	0 Inf	148 P							
U90547_at	8	0	20	20	20	18.040	1.27	0	0	0 Inf	148 P							
X97074_at	9	1	20	20	20	18.045	1.59	0	0	0.90	148 P							
D50405_at	10	1	20	20	20	18.050	1.70	0	0	0.10.0	146 P							
U93237_ma2_at	9	1	20	20	20	18.045	1.45	0	0	0.90	146 P							
X87237_at	13	2	20	20	20	18.065	2.65	1	1	0.6.5	146 P							
Z14244_at	10	1	20	20	20	18.050	1.75	0	0	0.10.0	145 P							
X74295_at																		

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	Normal urothelium C												
	14	8	2	20	20	20	20	20	20	3.67	1	0 Inf	145 P
X89750_at	14	8	2	20	20	20	20	20	20	18.070	1	0.40	144 P
U68233_at	9	9	2	20	20	20	20	20	20	18.040	0	0.45	144 P
U72517_at	10	0	0	20	20	20	20	20	20	18.045	0	0 Inf	144 P
X03934_at	12	0	0	20	20	20	20	20	20	18.050	0	0 Inf	143 P
U70735_at	10	2	2	20	20	20	20	20	20	18.060	0	0.50	143 P
U78524_at	9	1	1	20	20	20	20	20	20	18.045	0	0.90	138 P
X57398_at	7	2	2	20	20	20	20	20	20	18.035	0	0.35	137 P
U87459_at	10	3	3	20	20	20	20	20	20	18.050	0	0.33	137 P
X04366_at	10	1	1	20	20	20	20	20	20	18.050	0	0.100	135 P
Y00815_at	10	1	1	20	20	20	20	20	20	18.050	0	0.100	135 P
AFFX-HUMISGF3A/M97935_3_a	8	1	1	20	20	20	20	20	20	18.040	0	0.80	135 P
U79287_at	13	0	0	20	20	20	20	20	20	17.065	1	0 Inf	135 P
X12451_at	8	1	1	20	20	20	20	20	20	18.040	0	0.80	134 P
Z49099_at	11	2	2	20	20	20	20	20	20	18.055	0	0.55	133 P
X06409_at	8	2	2	20	20	20	20	20	20	18.040	0	0.40	133 P
X69433_at	8	1	1	20	20	20	20	20	20	18.040	0	0.80	132 P
U75968_at	9	2	2	20	20	20	20	20	20	18.045	0	0.45	132 P
L11066_at	11	3	3	20	20	20	20	20	20	17.055	0	0.37	131 P
X62744_at	8	1	1	20	20	20	20	20	20	18.040	0	0.80	130 P
U89336_cds1_at	9	2	2	20	20	20	20	20	20	18.045	0	0.45	130 P
U90907_at	9	0	0	20	20	20	20	20	20	17.045	0	0 Inf	130 P
X82434_at	9	3	3	20	20	20	20	20	20	18.045	1	0.30	129 P
X82200_at	10	2	2	20	20	20	20	20	20	18.050	1	0.50	129 P
X85373_at	9	0	0	20	20	20	20	20	20	18.045	0	0 Inf	129 P
Z47727_at	9	1	1	20	20	20	20	20	20	17.045	0	0.90	127 P
X71129_at	10	1	1	20	20	20	20	20	20	18.050	0	0.100	126 P
U85193_at	14	1	1	20	20	20	20	20	20	18.070	0	1.140	125 P
X76534_at	8	2	2	20	20	20	20	20	20	18.040	0	0.40	125 P
Z71460_at	8	1	1	20	20	20	20	20	20	17.040	0	0.80	124 P
U81556_at	10	1	1	20	20	20	20	20	20	18.050	2	0.100	123 P
U68063_at	7	0	0	20	20	20	20	20	20	18.035	0	0 Inf	123 P
X82895_at	14	2	2	20	20	20	20	20	20	18.070	3	0.70	120 P
X74262_at	7	1	1	20	20	20	20	20	20	18.035	0	0.70	120 P
Z56281_at	16	2	2	20	20	20	20	20	20	17.080	1	0.80	119 P
X77794_at	8	2	2	20	20	20	20	20	20	18.040	0	0.40	118 P
AFFX-BioB-3_at	9	0	0	20	20	20	20	20	20	17.045	0	0 Inf	118 P
X54232_at	8	2	2	20	20	20	20	20	20	18.040	0	0.40	115 P
U78793_at	10	1	1	20	20	20	20	20	20	18.050	1	0.100	115 P
X80692_at	9	1	1	20	20	20	20	20	20	18.045	0	0.90	113 P
X98311_at	8	2	2	20	20	20	20	20	20	18.040	0	0.40	111 P
X16316_at	10	3	3	20	20	20	20	20	20	18.050	0	0.33	111 P
X94612_at	11	2	2	20	20	20	20	20	20	18.055	0	0.55	110 P
X99728_at	12	1	1	20	20	20	20	20	20	18.060	0	0.120	109 P
X59405_at	9	3	3	20	20	20	20	20	20	17.045	0	0.30	108 P
X92896_at	13	2	2	20	20	20	20	20	20	18.065	1	0.130	107 P
X76648_at	9	2	2	20	20	20	20	20	20	17.045	0	0.45	106 P
X15187_at	8	2	2	20	20	20	20	20	20	17.040	0	0.40	105 P
U89276_at	9	1	1	20	20	20	20	20	20	17.045	0	0.90	105 P
X62055_at	11	2	2	20	20	20	20	20	20	18.055	0	0.55	105 P
X68277_at	11	1	1	20	20	20	20	20	20	17.055	0	0.110	105 P
X74008_at	9	1	1	20	20	20	20	20	20	18.045	0	0.90	104 P
U78556_at	9	0	0	20	20	20	20	20	20	17.045	0	0 Inf	104 P
U89336_cds3_at	9			20	20	20	20	20	20	17.045			

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Normal urothelium C									
X69141_at	12	2	20	20	17 0.60	2.35	0	0.60	104 P
X76180_at	8	1	20	20	18 0.40	1.39	0	0.80	104 P
U91932_at	9	1	20	20	17 0.45	1.82	0	0.90	103 P
Z69720_at	9	2	20	20	17 0.45	1.15	0	0.45	101 P
U91930_at	11	1	20	20	18 0.55	2.15	0	0.11.0	100 P
V01512_rna1_at	10	1	20	20	18 0.50	1.73	0	0.10.0	100 P
Z48042_at	10	2	20	20	18 0.50	1.74	0	0.50	99 P
X75962_at	8	1	20	20	18 0.40	1.50	0	0.80	98 P
X84740_at	7	2	20	20	18 0.35	1.33	0	0.3.5	98 P
U79241_at	10	3	20	20	17 0.50	2.01	0	0.3.3	97 P
X98411_at	6	1	20	20	18 0.40	1.35	0	0.80	97 P
X79781_at	11	0	20	20	18 0.55	1.58	0	0.1nf	96 P
U65932_at	7	0	20	20	17 0.35	1.22	0	0.1nf	95 P
X75304_at	7	0	20	20	18 0.35	1.21	0	0.1nf	95 P
Z37166_at	10	1	20	20	17 0.50	1.32	0	0.10.0	95 P
X61123_at	12	1	20	20	17 0.60	2.74	1	0.12.0	94 P
U90426_at	9	0	20	20	18 0.45	1.96	1	0.1nf	93 P
X94754_at	9	0	20	20	18 0.45	1.46	0	0.1nf	93 P
X99585_at	9	2	20	20	18 0.45	1.19	0	0.4.5	93 P
X12791_at	9	3	20	20	18 0.45	1.69	1	0.3.0	92 P
U86602_at	8	2	20	20	18 0.40	1.23	0	0.4.0	91 P
Z47087_at	12	1	20	20	17 0.60	1.95	0	0.12.0	89 P
U67963_at	7	2	20	20	18 0.35	1.81	0	0.3.5	87 P
Z15114_at	10	2	20	20	18 0.50	1.12	0	0.5.0	87 P
AFFX-HUMRGE/M10098_5_at	10	1	20	20	17 0.50	2.34	1	0.10.0	85 P
X57522_at	8	2	20	20	18 0.40	1.13	1	0.4.0	85 P
Y08915_at	9	2	20	20	18 0.45	0.93	0	1.4.5	85 P
U86829_at	9	2	20	20	17 0.45	1.88	0	0.4.5	84 P
X61100_rna1_at	10	0	20	20	18 0.50	2.11	0	0.1nf	84 P
X91247_at	10	2	20	20	18 0.50	1.59	0	0.5.0	84 P
Y07867_at	9	3	20	20	18 0.45	1.70	0	0.3.0	84 P
X76538_at	7	2	20	20	18 0.35	1.88	0	0.3.5	82 P
X82103_at	10	1	20	20	18 0.50	1.66	0	0.10.0	82 P
U72514_at	8	2	20	20	18 0.40	1.89	0	0.4.0	81 P
X82153_at	13	1	20	20	18 0.65	2.46	0	0.13.0	81 P
X06614_at	8	2	20	20	18 0.40	1.41	1	0.4.0	80 P
Z68747_at	7	2	20	20	18 0.35	1.32	0	0.3.5	80 P
U72508_at	7	0	20	20	18 0.35	1.06	0	0.1nf	79 P
X07024_at	9	2	20	20	18 0.45	1.27	0	0.4.5	78 P
Y13115_at	9	2	20	20	18 0.35	1.57	1	0.3.5	76 P
U69645_at	7	3	20	20	18 0.55	1.93	0	0.3.7	75 P
X63469_at	8	1	20	20	18 0.40	0.98	0	0.80	75 P
X76057_at	7	1	20	20	17 0.35	1.39	0	0.7.0	73 P
Z29083_at	7	1	20	20	18 0.40	1.62	1	0.4.0	72 P
X80497_at	8	2	20	20	18 0.45	1.99	0	0.4.5	72 P
Z22551_at	9	2	20	20	18 0.40	0.96	0	0.4.0	71 P
U77643_at	8	2	20	20	18 0.65	2.64	3	1.4.3	71 P
U90919_at	13	3	20	20	18 0.35	1.63	0	0.7.0	71 P
X02530_at	7	1	20	20	18 0.55	1.54	1	0.3.7	71 P
X05276_at	11	3	20	20	18 0.50	1.51	1	0.3.3	71 P
X67155_at	10	3	20	20	17 0.55	2.14	1	0.11.0	69 P
U83463_at	11	1	20	20	18 0.35	1.77	0	0.7.0	69 P
Z70219_at	7	1	20	20					



Normal urothelium C									
X73079_at	8	2	20	20	17 0.40	1.14	0	0.40	68 P
Z24725_at	8	1	20	20	18 0.40	1.83	1	0.80	68 P
X36531_at	9	3	20	20	18 0.45	1.96	0	1.30	68 P
X84709_at	10	1	20	20	18 0.50	1.50	0	0 10.0	67 P
X95740_rna2_at	8	2	20	20	18 0.40	1.27	0	0.40	66 P
X80910_at	9	2	20	20	18 0.45	2.08	1	0.45	66 P
X83461_at	8	1	20	20	18 0.40	1.88	1	0.80	65 P
Y10506_at	9	0	20	20	17 0.45	2.85	1	0 Inf	65 P
Z35491_at	8	2	20	20	17 0.40	1.14	0	0.40	65 P
X81003_at	9	0	20	20	18 0.45	1.85	1	0 Inf	64 P
X04287_at	10	2	20	20	17 0.50	1.80	1	0.50	63 P
X63753_at	9	1	20	20	17 0.45	1.90	1	0.90	63 P
U79274_at	11	2	20	20	18 0.55	2.73	2	0.55	62 P
U96629_rna2_at	8	2	20	20	17 0.40	1.49	1	0.40	61 P
X83368_at	11	3	20	20	18 0.55	2.01	2	0.37	60 P
Z50853_at	7	0	20	20	18 0.35	0.92	0	0 Inf	59 P
AFFX-M27830_5_at	8	2	20	20	18 0.40	1.43	0	0.40	58 P
X83378_at	9	3	20	20	18 0.45	1.76	1	0.30	58 P
U79265_at	8	2	20	20	18 0.40	0.98	0	0.40	57 P
X02612_at	9	3	20	20	18 0.45	1.57	1	0.30	57 P
X96586_at	11	3	20	20	18 0.55	2.67	2	0.37	56 P
X98263_at	7	1	20	20	17 0.35	1.32	1	0.70	56 P
U66469_at	7	1	20	20	18 0.35	0.92	0	0.70	55 P
X54941_at	8	0	20	20	18 0.40	1.03	0	0 Inf	55 P
U78313_at	9	1	20	20	17 0.45	1.42	0	0.90	54 P
U90651_at	9	1	20	20	18 0.45	1.70	1	1.90	54 P
X65873_at	10	3	20	20	17 0.50	1.71	0	0.33	52 P
D00860_at	9	2	20	20	18 0.45	1.05	0	0.45	52 P
X92098_at	8	1	20	20	18 0.40	1.56	0	0.80	51 P
X68742_at	7	1	20	20	18 0.35	1.11	0	1.70	49 P
X92396_at	10	1	20	20	18 0.50	2.18	3	0 10.0	49 P
X59841_at	8	2	20	20	18 0.40	1.44	0	0.40	48 P
X61118_rna1_at	11	0	20	20	18 0.55	2.36	2	0 Inf	48 P
Y12711_at	9	2	20	20	18 0.45	1.00	1	1.45	48 P
X63679_at	9	3	20	20	18 0.45	1.37	0	0.30	47 P
X85372_at	8	2	20	20	18 0.40	1.84	0	0.40	47 P
X87212_at	8	2	20	20	18 0.40	1.73	0	0.40	47 P
X76732_at	8	2	20	20	18 0.40	1.22	1	0.40	46 P
U79242_at	9	1	20	20	18 0.45	2.45	2	0.90	45 P
U79273_at	8	2	20	20	17 0.40	1.90	0	0.40	45 P
X02596_at	8	2	20	20	18 0.40	1.59	1	0.40	43 P
X53586_rna1_at	8	1	20	20	18 0.40	1.38	0	1.80	43 P
U66669_at	9	2	20	20	18 0.45	1.19	0	0.45	40 P
U77129_at	10	2	20	20	18 0.50	1.39	0	0.50	40 P
X84194_at	9	1	20	20	18 0.45	2.24	0	0.90	39 P
Z24724_at	9	1	20	20	18 0.45	1.48	0	0.90	38 P
U73191_at	8	1	20	20	17 0.40	0.99	0	1.80	37 P
U89336_cd56_at	8	2	20	20	18 0.45	0.93	0	0.45	36 P
X55544_at	9	2	20	20	18 0.40	1.33	0	0.80	36 P
X82207_at	7	1	20	20	18 0.35	1.25	1	0.70	36 P
X96752_at	9	2	20	20	18 0.45	1.39	1	0.45	36 P
X97544_at	9	0	20	20	18 0.45	2.38	2	0 Inf	36 P
Y07701_at	8	0	20	20	18 0.40	1.16	0	0 Inf	36 P

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## Normal urothelium D

Gene name	Pos	Fractl	Log Avg	Pos/Neg	Avg Diff	Abs Call
hum_alu_at	0.93	4.78	Under	19333 P		
L04483_s_at	1.00	6.39	Under	11710 P		
M63438_s_at	0.94	5.38	Under	8316 P		
AFFX-CreX-3_at	1.00	7.08	Under	7387 P		
M14199_s_at	1.00	6.11	Under	7240 P		
M31520_rna1_s_at	1.00	7.41	Under	7095 P		
D13413_rna1_s_at	0.94	5.13	Under	6543 P		
J04617_s_at	0.94	6.13	Under	6479 P		
J00105_s_at	1.00	8.49	Under	6165 P		
HC2815-HT4023_s_at	0.95	5.52	Under	6034 P		
AFFX-CreX-5_at	1.00	7.24	Under	5719 P		
U06155_s_at	0.86	5.26	Under	5581 P		
HG1428-HT1428_s_at	0.90	6.57	Under	5284 P		
M10277_s_at	0.90	5.39	Under	5189 P		
X52426_s_at	0.95	4.65	Under	5075 P		
M25079_s_at	0.75	3.56	Under	4613 P		
HC2815-HT2931_at	1.00	4.67	Under	4370 P		
X57351_s_at	1.00	6.06	Under	4215 P		
AFFX-HSAC07/X00351_3_at	0.95	4.92	Under	4111 P		
U43901_rna1_s_at	0.90	4.89	Under	4088 P		
M36072_at	0.75	3.70	Under	3875 P		
AFFX-HUNGAPDH/M33197_3_a	0.95	5.10	Under	3815 P		
V00594_s_at	1.00	6.24	Under	3716 P		
X69654_at	0.95	6.24	Under	3615 P		
S71043_rna1_s_at	0.80	3.63	Under	3097 P		
D49824_s_at	1.00	5.66	Under	3076 P		
Z49148_s_at	1.00	5.41	Under	2957 P		
X17093_at	0.60	2.80	Under	2844 P		
S82297_at	0.95	4.02	Under	2759 P		
AFFX-BioDn-3_at	0.75	3.55	Under	2730 P		
U68105_s_at	0.95	7.09	Under	2639 P		
M34516_at	1.00	3.14	Under	2613 P		
M55409_s_at	0.85	5.66	Under	2532 P		
X98482_f_at	0.33	1.36	Under	2448 P		
X03689_s_at	1.00	6.82	Under	2419 P		
HC658-HT658_f_at	0.73	3.32	Under	2332 P		
X01677_f_at	0.85	4.02	Under	2281 P		
M26708_s_at	1.00	5.58	Under	2172 P		
D32129_f_at	0.95	5.02	Under	1884 P		
M14483_rna1_s_at	0.80	4.11	Under	1837 P		
X51345_at	0.75	4.45	Under	1817 P		
HC3991-HT4261_f_at	0.45	2.24	Under	1796 P		
M34516_r_at	0.91	4.72	Under	1747 P		
X00351_f_at	0.90	5.53	Under	1737 P		
D86974_at	0.85	3.82	Under	1677 P		
AFFX-HSAC07/X00351_M_at	0.75	3.80	Under	1620 P		
HC3342-HT3519_s_at	0.89	5.01	Under	1617 P		
M55098_s_at	0.65	5.62	Under	1610 P		
HC3431-HT3616_s_at	0.85	6.16	Under	1529 P		

## Normal urothelium D

HG417-HT417_s_at	0.90	5.16	Undef	1481 P
HG2147-HT2217_at	0.83	1.76	5.0	1428 P
M33600_f_at	0.80	3.73	Undef	1395 P
X99133_at	0.60	2.86	12.0	1351 P
U57341_f_at	1.00	4.39	Undef	1344 P
S54005_s_at	0.80	4.83	Undef	1309 P
J04152_ma1_s_at	0.90	5.26	18.0	1291 P
M13560_s_at	0.80	4.20	16.0	1286 P
M24485_s_at	0.65	3.17	Undef	1234 P
HG3597-HT3800_f_at	0.80	4.54	18.0	1148 P
M12125_at	0.65	3.02	13.0	1144 P
J03801_f_at	0.90	5.19	Undef	1137 P
HG1980-HT2023_at	0.45	2.42	Undef	1132 P
M87789_s_at	0.75	2.57	15.0	1078 P
X04347_s_at	0.90	5.03	Undef	1076 P
X14008_ma1_f_at	0.75	4.95	15.0	1072 P
S75256_s_at	0.80	3.92	16.0	1069 P
M94880_f_at	0.50	2.24	Undef	1061 P
M19311_s_at	0.81	5.08	13.0	1040 P
HG1515-HT1515_f_at	0.75	4.64	15.0	1005 P
AFX-HSAC07/X00351_5_at	0.80	3.09	16.0	958 P
J03077_s_at	0.65	3.77	13.0	925 P
X12671_ma1_at	0.90	4.19	Undef	917 P
M14328_s_at	0.75	3.54	7.5	885 P
X74929_s_at	0.65	2.81	Undef	869 P
L11672_at	0.50	2.21	Undef	855 P
U05861_at	0.70	3.82	14.0	850 P
M26730_s_at	0.85	4.45	8.5	838 P
Z19554_s_at	0.78	4.15	14.0	827 P
AFX-HUMGAPDH/M33197_M_	0.60	2.75	6.0	802 P
M19045_f_at	0.75	5.50	15.0	794 P
AFX-HSAC07/X00351_3_at	0.75	3.50	Undef	779 P
HG2815-HT2931_s_at	0.93	4.98	Undef	767 P
U70439_s_at	0.75	4.30	Undef	766 P
X56681_s_at	0.65	2.68	6.5	766 P
Z48501_s_at	0.74	3.63	Undef	748 P
X12876_s_at	0.70	4.75	14.0	745 P
HG3576-HT3779_f_at	0.65	2.88	6.5	734 P
Z69043_s_at	0.70	3.45	7.0	722 P
HG2915-HT3059_f_at	0.65	2.34	Undef	720 P
M11313_s_at	0.65	3.19	13.0	717 P
M26311_s_at	0.63	2.85	12.0	686 P
AFX-BioOn-5_at	0.80	3.30	16.0	663 P
HG2917-HT3061_f_at	0.60	2.11	Undef	663 P
U04241_at	0.45	2.22	9.0	659 P
D17793_at	0.70	4.00	14.0	650 P
M52403_s_at	0.65	2.40	Undef	648 P
HG3236-HT3413_f_at	0.50	2.18	10.0	635 P
L33075_at	0.55	2.57	Undef	634 P
X57809_s_at	0.58	2.03	Undef	629 P
Z49107_s_at	0.45	1.28	4.5	623 P

## Normal urothelium D

AFFX-HUMGAPDH/M33197_s_a0.75	4.14	15.0	622 P
U48705_rna1_s_at	2.63	3.7	610 P
X03068_f_at	2.29	24.0	606 P
L02326_f_at	2.32	3.7	566 P
AJ000099_s_at	2.08	9.0	546 P
M21142_cd52_s_at	2.18	3.3	546 P
Z15115_at	0.80	Undef	543 P
X56841_at	0.50	10.0	540 P
AFFX-BioC-5_at	0.65	2.87	537 P
L09209_s_at	3.77	Undef	537 P
HG4264-HT4534_s_at	4.39	Undef	530 P
V00599_s_at	2.24	5.5	528 P
X04654_s_at	2.30	4.0	488 P
L40397_at	2.78	14.0	487 P
M96995_s_at	0.40	1.58	470 P
AFFX-BioC-3_at	2.22	6.0	459 P
M83667_rna1_s_at	3.14	15.0	444 P
D00749_s_at	0.47	1.30	438 P
U88898_f_at	1.59	Undef	422 P
HG1322-HT5143_s_at	3.87	14.0	415 P
U72649_at	2.87	13.0	412 P
U00947_s_at	4.51	Undef	403 P
M16336_s_at	2.18	5.5	401 P
X04470_s_at	2.25	Undef	396 P
M65292_s_at	2.96	Undef	394 P
HG688-HT688_f_at	2.11	12.0	390 P
HG371-HT26388_s_at	2.30	7.0	380 P
M16342_at	2.06	Undef	374 P
X58072_at	0.50	Undef	373 P
X57351_at	2.13	4.0	369 P
M69013_at	2.78	12.0	368 P
Z26491_s_at	0.75	3.48	361 P
M30448_s_at	2.08	5.5	357 P
L49380_at	1.37	4.5	354 P
U90552_s_at	3.90	Undef	347 P
HG3076-HT3238_s_at	2.99	12.0	346 P
X85116_rna1_s_at	2.08	3.7	331 P
D17408_s_at	2.31	10.0	325 P
J02871_s_at	2.46	6.0	319 P
M57466_s_at	2.81	Undef	312 P
K02405_f_at	1.30	7.0	309 P
M23323_s_at	1.87	11.0	309 P
L33930_s_at	1.68	Undef	307 P
X04526_at	2.22	Undef	305 P
Z35402_rna1_s_at	3.12	14.0	305 P
Y00264_at	3.15	13.0	302 P
L00389_f_at	0.50	1.73	301 P
M12959_s_at	2.34	Undef	295 P
X15729_s_at	3.92	7.0	295 P
D78577_s_at	2.40	4.0	291 P
M16276_at	1.87	Undef	285 P

Side 3

## Normal urothelium D

J05582_s_at	0.50	1.55	Undef	283 P
U08021_at	0.50	1.84	10.0	275 P
M97935_s_at	0.60	2.49	4.0	273 P
D79206_s_at	0.40	1.26	Undef	270 P
X01703_at	0.65	2.91	Undef	267 P
J04093_s_at	0.70	4.37	Undef	265 P
X17567_s_at	0.45	1.85	3.0	261 P
HG4535-HT4940_s_at	0.35	1.29	7.0	259 P
L24774_s_at	0.45	1.63	4.5	259 P
M58525_s_at	0.40	1.38	8.0	259 P
X14684_s_at	0.50	1.79	5.0	258 P
M37457_at	0.50	1.93	Undef	257 P
U49835_s_at	0.60	2.17	Undef	257 P
U94563_xp12_r_at	0.33	1.35	Undef	255 P
M13690_s_at	0.50	2.07	Undef	252 P
S40719_s_at	0.50	1.63	3.3	251 P
X05130_s_at	0.58	1.95	11.0	247 P
U50079_s_at	0.60	2.55	3.0	243 P
AC002045_xp12_s_at	0.55	2.10	11.0	231 P
M10942_at	0.45	2.13	3.0	228 P
D42040_s_at	0.40	1.08	4.0	224 P
L76517_at	0.35	1.27	7.0	221 P
U32986_s_at	0.40	1.48	8.0	218 P
X52979_rna1_s_at	0.55	2.08	11.0	218 P
X53296_s_at	0.55	2.54	5.5	217 P
X90846_at	0.60	1.90	Undef	214 P
AFFX-HUMISGF3A/M97935_3_a.65	0.65	3.14	Undef	209 P
L05187_at	0.45	1.97	9.0	209 P
X65965_s_at	0.67	2.90	Undef	209 P
S50017_s_at	0.55	2.17	5.5	208 P
X72727_at	0.55	1.95	Undef	204 P
X74874_rna1_s_at	0.45	2.13	9.0	203 P
J03805_s_at	0.50	3.17	9.0	202 P
X55037_s_at	0.55	1.49	3.7	201 P
HG4541-HT4946_s_at	0.61	1.85	3.7	197 P
U79528_s_at	0.50	1.17	Undef	195 P
Z49835_s_at	0.50	3.00	5.0	195 P
U83598_at	0.50	1.64	Undef	191 P
L22524_s_at	0.50	2.89	9.0	190 P
M93651_at	0.60	2.33	Undef	190 P
U36341_rna1_at	0.35	1.33	3.5	188 P
M19267_s_at	0.63	2.37	6.0	186 P
U07808_s_at	0.55	2.51	3.7	185 P
M34996_s_at	0.60	2.17	12.0	184 P
X77588_s_at	0.50	1.90	3.3	184 P
L12711_s_at	0.47	1.69	4.5	181 P
S82447_s_at	0.35	1.11	7.0	180 P
U09587_at	0.65	2.63	6.5	178 P
S69272_s_at	0.45	1.49	3.0	177 P
X62083_s_at	0.50	1.18	5.0	177 P
J03242_s_at	0.35	1.56	7.0	172 P

Side 4

## Normal urothelium D

AB006781_s_at	0.35	1.23	Undef	171 P
L42583_f_at	0.50	1.38	Undef	169 P
X98296_at	0.35	0.96	7.0	169 P
U28014_at	0.60	3.02	Undef	168 P
S80437_s_at	0.45	1.55	9.0	166 P
S82597_ma1_s_at	0.50	1.67	10.0	166 P
U16799_s_at	0.60	2.36	4.0	163 P
U57152_ma1_s_at	0.45	1.57	4.5	160 P
X07438_s_at	0.63	3.50	Undef	159 P
AFFX-HUMRGE/M10098_5_at	0.55	2.14	5.5	158 P
D00408_s_at	0.45	1.41	Undef	156 P
M28213_s_at	0.65	1.93	6.5	156 P
M82843_s_at	0.45	1.62	9.0	154 P
Z11899_s_at	0.40	1.32	4.0	154 P
X73358_s_at	0.47	1.25	4.5	153 P
U77846_ma1_s_at	0.40	1.93	4.0	151 P
X05855_s_at	0.53	2.84	8.0	143 P
M27394_s_at	0.45	1.60	4.5	142 P
U61734_s_at	0.47	1.40	3.0	140 P
Z25521_s_at	0.40	1.23	4.0	140 P
X83416_s_at	0.55	2.60	5.5	139 P
X52022_at	0.45	2.00	Undef	138 P
U22431_s_at	0.50	2.19	5.0	135 P
HG2090.HT2152_s_at	0.42	1.54	8.0	132 P
L14778_s_at	0.58	2.72	Undef	132 P
D83174_s_at	0.40	1.41	Undef	131 P
M13829_s_at	0.45	1.75	3.0	131 P
U41654_at	0.60	1.95	12.0	129 P
U61397_s_at	0.45	1.61	9.0	129 P
M20867_s_at	0.53	2.56	Undef	127 P
Y00787_s_at	0.55	2.37	11.0	127 P
Y00451_s_at	0.45	1.77	4.5	125 P
L15189_s_at	0.50	2.51	5.0	124 P
X06700_s_at	0.50	1.59	3.3	124 P
HG2743.HT2846_s_at	0.40	0.91	8.0	123 P
Y00097_s_at	0.50	1.48	3.3	123 P
D83260_s_at	0.47	1.60	4.5	121 P
HG4334.HT4604_s_at	0.35	1.16	7.0	120 P
Z47055_s_at	0.35	1.65	3.5	120 P
X02761_s_at	0.55	1.65	5.5	119 P
X89399_s_at	0.45	0.97	4.5	118 P
D78132_s_at	0.60	1.92	3.0	117 P
D28473_s_at	0.70	2.95	7.0	115 P
S57212_s_at	0.40	1.35	8.0	115 P
HG4557.HT4962_r_at	0.80	1.92	Undef	114 P
U61276_s_at	0.50	2.19	10.0	114 P
U60061_at	0.60	2.43	12.0	113 P
J04130_s_at	0.50	1.66	3.3	110 P
M63838_s_at	0.45	2.03	9.0	110 P
S79219_s_at	0.55	1.48	5.5	109 P
U58046_s_at	0.45	2.81	9.0	109 P

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## Normal urothelium D

X03363_s_at	0.35	1.58	3.5	109 P
X76942_s_at	0.60	2.40	6.0	109 P
HG3925-HT4195_at	0.40	1.45	Undef	106 P
M61832_s_at	0.40	1.11	8.0	105 P
U80226_s_at	0.40	1.85	4.0	103 P
X72889_at	0.35	1.53	Undef	103 P
HG3484-HT3678_s_at	0.45	1.66	Undef	99 P
D49372_s_at	0.35	1.28	7.0	97 P
AFEX-M27830_5_at	0.40	1.18	Undef	95 P
S68805_at	0.50	1.96	Undef	95 P
M14745_at	0.50	1.09	10.0	94 P
U06155_at	0.50	1.18	Undef	94 P
Z35085_s_at	0.42	2.60	4.0	93 P
U44799_s_at	0.40	1.60	4.0	92 P
X62534_s_at	0.60	2.49	4.0	92 P
M33684_s_at	0.35	1.42	3.5	91 P
U73936_at	0.45	1.01	Undef	90 P
X85137_s_at	0.40	1.80	8.0	90 P
HG1400-HT1400_s_at	0.50	2.62	10.0	89 P
X90530_at	0.55	2.41	3.7	88 P
X82368_at	0.55	2.41	5.5	88 P
D26535_s_at	0.45	1.84	4.5	87 P
HG4593-HT4998_at	0.50	1.39	3.3	86 P
U41740_at	0.45	2.35	9.0	86 P
X12530_s_at	0.42	1.23	Undef	86 P
AFEX-HUMRGE/M10098_M_at	0.45	1.35	4.5	85 P
U26424_at	0.45	2.48	Undef	84 P
X57809_at	0.50	1.27	4.0	84 P
HG210-HT210_s_at	0.60	2.00	6.0	83 P
HG2981-HT3125_s_at	0.50	1.51	5.0	82 P
U30827_s_at	0.50	1.22	5.0	82 P
M34715_at	0.45	1.39	Undef	80 P
D89377_s_at	0.38	0.97	Undef	76 P
L12760_s_at	0.42	1.78	8.0	75 P
M24069_at	0.45	2.05	3.0	75 P
L43579_s_at	0.40	1.48	3.0	74 P
U01691_s_at	0.35	1.37	Undef	74 P
L00634_s_at	0.53	2.30	3.3	71 P
U19495_s_at	0.65	2.98	4.3	71 P
HG2148-HT2218_f_at	0.35	1.33	3.5	70 P
L25931_s_at	0.55	1.98	11.0	69 P
U20536_s_at	0.45	1.79	Undef	69 P
U77846_rna1_at	0.40	1.34	Undef	68 P
U19147_s_at	0.55	3.75	11.0	66 P
L18877_f_at	0.35	1.26	Undef	64 P
M90356_f_at	0.40	0.92	4.0	63 P
D00003_s_at	0.42	1.46	Undef	62 P
AF012024_s_at	0.40	1.35	4.0	60 P
M16652_at	0.50	1.24	Undef	58 P
U09279_at	0.40	2.24	8.0	58 P
L78833_cds1_at	0.40	1.22	8.0	57 P



## Normal urothelium D

M24736_s_at	0.45	2.83	Under	57 P
D63861_s_at	0.65	3.10	4.3	58 P
U26173_s_at	0.40	0.93	4.0	55 P
U33632_at	0.40	1.11	4.0	53 P
X70944_s_at	0.40	1.97	4.0	53 P
X03350_at	0.45	0.99	9.0	52 P
U20938_at	0.45	1.36	3.0	50 P
X81625_at	0.45	1.93	4.5	48 P
HC36-H14101_s_at	0.33	1.47	3.0	47 P
U47077_at	0.40	1.22	Under	47 P
X59244_l_at	0.35	1.32	3.5	47 P
X92493_s_at	0.45	2.05	3.0	47 P
U49020_cds2_s_at	0.35	1.59	3.5	46 P
U72936_s_at	0.35	1.32	7.0	45 P
M14758_at	0.35	1.45	3.5	42 P
S76853_s_at	0.45	1.56	4.5	42 P
M27093_s_at	0.50	1.42	Under	40 P
M64752_at	0.45	1.07	4.5	38 P
X83490_s_at	0.35	1.38	3.5	38 P
D28235_s_at	0.40	1.37	8.0	37 P
X62429_s_at	0.45	1.66	3.0	36 P
X67235_s_at	0.44	1.44	4.0	35 P
X95632_s_at	0.45	1.86	9.0	35 P
M27436_s_at	0.45	1.65	4.5	32 P
J00219_s_at	0.40	1.18	8.0	31 P
M26665_at	0.50	1.48	3.0	27 P
U09716_s_at	0.35	1.84	3.5	25 P
X91196_s_at	0.35	0.95	7.0	22 P

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[illegible]

Expressed RNA in Subcutaneous connective tissue, Normal urothelium and Transitional cell carcinoma									
D006_2.at	Human plasma (extracellular) mRNA for glutathione peroxidase, complete cds	1245	99	20	34	902	101		
D006_4.at	Human enteric smooth muscle gamma-actin gene, 5' flant and	1245	751	20	23	251	100		
D007_3.at	Human mRNA for tyrosine carboxylase, complete cds	123	20	20	35	20	103		
D007_16.at	Human mRNA for tyrosine carboxylase (EC 4.99.1.1)	108	438	184	214	94	99		
D007_49_s.at	Human T cell surface antigen CD7 gene	71	107	101	119	94	99		
D007_60.at	Human mRNA for proteasome subunit HC3	310	482	251	308	132	192		
D007_61.at	Human mRNA for proteasome subunit HC5	188	68	197	178	69	143		
D007_82.at	Human mRNA for proteasome subunit HC8	166	211	237	152	234	182		
D007_83.at	Human mRNA for proteasome subunit HC9	47	20	20	20	20	20		
D008_60.at	Human mRNA for phosphoribosyl pyrophosphate synthetase (EC 2.7.6.1) subunit I	82	37	20	20	332	88		
D008_61.at	Human mRNA for long-chain acyl-CoA synthetase	38	20	20	20	20	20		
D008_62.at	Human mRNA for platelet-activating factor receptor, complete cds	38	20	20	20	20	20		
D008_63.at	Human mRNA for protein kinase C delta-type	38	20	20	20	20	20		
D008_64.at	Human gene for mitochondrial acyl-CoA oxidase	88	20	20	20	20	20		
D008_65.at	Human mRNA for 80Kd protein, complete cds	121	245	390	252	76	127		
D008_66.at	Human mRNA for 2-oxoglutarate dehydrogenase, complete cds	136	55	20	53	170	126		
D008_67.at	Human mRNA for major structural protein of myelin, complete cds	30	20	20	20	20	20		
D008_68.at	Human mRNA for CRK-II, complete cds	171	40	20	20	20	20		
D008_69.at	Human mRNA for smooth muscle myosin heavy chain	110	47	20	20	202	63		
D008_70.at	Human mRNA for choline kinase	132	20	20	20	495	40		
D009_22_s.at	Human mRNA for FHL-2-related receptor (HML63)	132	20	20	20	123	47		
D009_23_s.at	Human mRNA for HM74	133	20	20	20	20	20		
D009_24_s.at	Human gene for serotonin 1B receptor, complete cds	133	56	27	105	51	156		
D009_25_s.at	Human mRNA for interleukin 2 receptor gamma chain	178	200	199	139	811	547		
D009_26_s.at	Human mRNA for "MSS1", complete cds	222	70	70	109	106	51		
D009_27_s.at	Human gene for tissue inhibitor of metalloproteinases, partial sequence	52	20	20	20	20	20		
D009_28_s.at	Human DNA for endothelin-A receptor, 5' flanking region and	26	27	20	20	20	21		
D009_29_s.at	Human mRNA for protein-tyrosine phosphatase, complete cds	557	309	78	128	396	39		
D009_30_s.at	Human mRNA for PNP-22(PAS-11/SR13(Gas-3)) of peripheral myelin, complete cds	85	39	20	31	183	184		
D009_31_s.at	Human mRNA for nucleotide pyrophosphatase, complete cds	85	20	20	20	183	101		
D009_32_s.at	Human mRNA for cytochrome P-450 1B1	86	20	20	20	20	40		
D009_33_s.at	Human mRNA for NF1 protein isoform (neurofibromin isoform), complete cds	20	20	20	20	20	20		
D009_34_s.at	Human mRNA for lysosomal sialidoglycoprotein, complete cds	20	20	20	20	20	20		
D009_35_s.at	Human mRNA for eukaryotic initiation factor 4 gamma (eIF-4 gamma)	20	20	20	20	20	20		
D009_36_s.at	Human mRNA for S12 protein	37	20	20	20	20	20		
D009_37_s.at	Human mRNA for erythrocyte-specific ADP deaminase, complete cds	611	501	575	432	1114	651		
D009_38_s.at	Human 2,3-cyclic-nucleotide 3-phosphodiesterase gene, exon 3	218	235	195	170	188	212		
D009_39_s.at	Human gene for endothelin-B receptor (NET-BR)	20	22	70	41	20	40		
D009_40_s.at	Human mRNA for macrophage scavenger receptor type 1, 3' untranslated region	20	21	20	42	45	46		
D009_41_s.at	Human mRNA for brain cholesterolemia receptor	173	67	168	88	132	108		
D009_42_s.at	Human mRNA for lactoyl phosphatase	185	153	259	249	179	322		
D009_43_s.at	Human APX gene encoding APEX nuclease, complete cds	2651	6543	5549	2371	2371	2727		
D009_44_s.at	Human mRNA for tumor-associated 120 kDa nuclear protein p120, partial cds(carboxyl terminus)	92	25	32	48	20	24		
D009_45_s.at	Human mRNA for protein-tyrosine phosphatase	42	20	20	20	20	20		
D009_46_s.at	Human mRNA for KIAA0001 gene, complete cds	155	157	178	152	170	183		
D009_47_s.at	Human mRNA for KIAA0003 gene, complete cds	20	20	20	20	20	41		
D009_48_s.at	Human mRNA for KIAA0005 gene, complete cds	98	29	57	32	32	100		
D009_49_s.at	Human mRNA for KIAA0008 gene, complete cds	24	24	64	34	71	20		
D009_50_s.at	Human mRNA for KIAA0009 gene, complete cds	96	20	47	20	20	90		
D009_51_s.at	Human mRNA for KIAA0010 gene, complete cds	24	20	33	20	20	20		
D009_52_s.at	Human mRNA for KIAA0011 gene, complete cds	25	20	67	55	20	20		
D009_53_s.at	Human mRNA for KIAA0012 gene, complete cds	40	20	20	20	20	108		
D009_54_s.at	Human mRNA for KIAA0015 gene, complete cds	100	70	78	38	32	143		
D009_55_s.at	Human mRNA for KIAA0016 gene, complete cds	131	313	119	235	280	280		
D009_56_s.at	Human mRNA for KIAA0017 gene, complete cds	104	123	300	178	99	56		
D009_57_s.at	Human mRNA for KIAA0018 gene, complete cds	110	20	20	20	227	155		
D009_58_s.at	Human mRNA for KIAA0019 gene, complete cds	20	35	20	20	194	20		
D009_59_s.at	Human mRNA for KIAA0020 gene, complete cds	115	20	20	20	121	20		
D009_60_s.at	Human mRNA for KIAA0020 gene, complete cds	20	20	20	20	62	128		
D009_61_s.at	Human mRNA for KIAA0020 gene, complete cds	20	20	20	20	20	20		

Expressed RNA in Subendothelial connective tissue, Normal urothelium and Transitional cell carcinomas											
Accession	Gene	1	2	3	4	5	6	7	8	9	10
D13705_s at	Human mRNA for fatty acid omega-hydroxylase (cytochrome P-450HKL), complete cds	108	171	321	182	703	218				
D13770_s at	Human mRNA for "LYK", complete cds	37	57	100	46	205	20				
D13748_s at	Human mRNA for eukaryotic initiation factor 4A1	744	353	717	816	573	630				
D13789_s at	Human mRNA for N-acetylglucosaminyltransferase "III", complete cds	24	20	20	20	153	28				
D13814_s at	Human mRNA for angiotensin II type 1b "receptor", complete cds	220	70	110	104	93	247				
D13817_m2_s at	Human DNA for peptide YY, complete cds	253	402	522	453	426	367				
D1394_s at	Human mRNA for mitochondrial short-chain enoyl-CoA hydratase, complete cds	50	119	328	298	303	273				
D1399_s at	Human rib GDP mRNA, complete cds	228	157	328	298	303	273				
D1400_s at	Human mRNA for "MGC-74", complete cds	159	328	328	298	303	273				
D1411_s at	Human mRNA for "MGC-74", complete cds	20	34	35	20	20	20				
D14468_s at	Human HFEPR-1 mRNA for unknown protein, complete cds	20	20	20	20	20	20				
D14467_s at	Human mRNA for proto-oncogene protein, complete cds	20	20	20	20	20	20				
D14520_s at	Human mRNA for GC-box binding protein B1EB2, complete cds	49	387	459	34	20	219				
D14530_s at	Human homolog of yeast ribosomal protein S28, complete cds	218	201	227	186	717	1251				
D14533_s at	Human mRNA for APAC protein	25	31	20	20	20	20				
D14637_s at	Human mRNA for KIAA0101 gene, complete cds	92	110	360	195	246	104				
D14636_s at	Human mRNA for KIAA0102 gene, complete cds	54	71	20	20	20	80				
D14635_s at	Human mRNA for KIAA0103 gene, complete cds	27	36	20	43	20	20				
D14660_s at	Human mRNA for KIAA0104 gene, complete cds	134	181	182	109	163	104				
D14661_s at	Human mRNA for KIAA0105 gene, complete cds	123	165	147	128	20	116				
D14662_s at	Human mRNA for KIAA0106 gene, complete cds	25	41	26	20	58	20				
D14663_s at	Human mRNA for KIAA0107 gene, complete cds	127	141	20	20	20	20				
D14664_s at	Human mRNA for KIAA0222 gene, complete cds	127	141	20	20	144	219				
D14678_s at	Human gene for glycine cleavage system T-protein	242	105	62	134	288	151				
D14668_s at	Human mRNA for KIAA0223 gene, complete cds	163	255	345	237	304	207				
D14694_s at	Human mRNA for KIAA0224 gene, complete cds	20	61	66	48	20	105				
D14695_s at	Human mRNA for ATP synthase alpha subunit, complete cds	980	613	1271	833	133	583				
D14710_s at	Human mRNA for ATP synthase alpha subunit, complete cds	49	20	20	20	20	68				
D14811_s at	Human mRNA for KIAA0110 gene, complete cds	396	282	399	393	234	445				
D14822_s at	Human chimera mRNA derived from AML1 gene and MFG(EITD) gene, partial sequence	30	20	20	20	20	56				
D14823_s at	Human chimera mRNA derived from AML1 gene and MFG(EITD) gene, partial sequence	74	40	20	20	20	31				
D14826_s at	Human mRNA for hCREM (cyclic AMP-responsive element modulator) type 2 protein, complete cds	137	58	20	70	20	20				
D14827_s at	Human mRNA for "TGF-beta", complete cds	72	63	21	20	100	20				
D14835_s at	Human mRNA for "TGF-beta", complete cds	72	63	21	20	100	20				
D14874_s at	Human mRNA for protein "D123", complete cds	101	91	63	65	216	137				
D14878_s at	Human mRNA for small GTP-binding protein, "S10", complete cds	37	78	52	20	178	128				
D15049_s at	Human mRNA for protein tyrosine phosphatase	101	79	30	107	258	128				
D15050_s at	Human mRNA for transcription factor "AREB9", complete cds	168	45	129	163	75	103				
D15057_s at	Human mRNA for "DAD-1", complete cds	171	111	130	145	64	134				
D16105_s at	Human mRNA for leucocyte tyrosine kinase, complete cds	130	127	148	112	296	184				
D16154_s at	Human gene for cytochrome P-450c11, exon 3-9 (pB-D16154 mypD=DNA annotation)	23	20	20	20	46	20				
D16181_s at	Human gene for cytochrome P-450c11, exon 3-9 (pB-D16154 mypD=DNA annotation)	23	20	20	20	46	20				
D16312_s at	Human mRNA for "caldesmon", complete cds	681	287	647	537	248	452				
D16327_s at	Human mRNA for BDP-1 protein (11 members of the recoverin family), complete cds	183	20	20	20	20	134				
D16328_s at	Human mRNA for BDP-1 protein (11 members of the recoverin family), complete cds	20	20	20	20	20	20				
D16330_s at	Human SA mRNA for SA gene product, complete cds	20	40	20	20	174	20				
D16449_s at	Human mRNA for "GHR", Ag terminal portion	20	91	357	339	221	281				
D16450_s at	Human mRNA for mitochondrial 3-oxoacyl-CoA thiolase, complete cds	28	25	71	85	20	73				
D16481_s at	Human mRNA for mitochondrial enoyl-CoA hydratase/3-hydroxyacyl-CoA dehydrogenase alpha subunit of trifunctional protein, complete cds	30	66	78	101	20	84				
D16532_s at	Human gene for very low density lipoprotein receptor, 5' flanking and	41	20	20	20	20	20				
D16562_s at	Human mRNA for ATP synthase gamma subunit "L-type", complete cds	564	354	718	607	534	811				
D16581_s at	Human mRNA for "p-oxo-dGTPase", complete cds	135	100	118	125	370	179				
D16583_s at	Human gene for L-histidine decarboxylase, complete cds	20	20	20	20	20	20				
D16583_s at	Human BDR-2 mRNA for "lipocalin", complete cds	56	48	48	112	28	102				
D16611_s at	Human mRNA for thiadiazine oxidase, complete cds	24	20	48	20	20	20				
D16626_s at	Human mRNA for thiadiazine oxidase, complete cds	48	20	20	20	44	52				
D16638_s at	Human LTG9ALL13 mRNA, C-terminal	20	20	20	20	20	20				
D16815_s at	Human gene for "EAR-1", complete cds	20	20	20	20	20	20				
D16827_s at	Human gene for GPR1 somatostatin receptor subtype	20	20	20	20	20	20				
D17357_s at	Human alpha 1(I) procollagen, regulatory sequence of 5' upstream region, (pB-D17357 mypD=DNA annotation)	20	20	20	20	20	20				
D17390_s at	Human mRNA for MDC protein	20	20	20	20	20	20				
D17391_s at	Human mRNA for alpha 4(V) collagen, C-terminal	20	20	20	20	20	20				
D17400_s at	Human mRNA for 8-phosphoryl-adenosine synthase, complete cds	42	67	31	20	211	20				

Expressed RNA in Suburothelial connective tissue, Normal urothelium and Transitional cell carcinoma

D17008_s.at	Human mRNA for "calponin", complete cds	493	325	201	20	20	20	20	20
D17427_s.at	Human mRNA for desmocollin type 1	22	17	85	20	20	20	20	20
D17461_s.at	Human CULO gene for "L-lysine-glutamate oxidase", exon 9, 10' and 12 (p=D17461) (mtype=DNA) (ampligen)	109	23	20	20	20	20	20	20
D17516_s.at	Human mRNA for PACAP "receptor", complete cds	177	95	74	20	20	20	20	20
D17525_s.at	Human mRNA for precursor of P100 being protease of R <sub>1</sub> -reactive "factor", complete cds	211	62	81	20	20	20	20	20
D17537_s.at	Human mRNA for "RCK", complete cds	20	57	23	20	20	20	20	20
D17547_s.at	Human mRNA for DOP-Actone laudomerase (tyrosinase-related "protein-2"), complete cds	20	20	20	20	20	20	20	20
D17570_s.at	Human mRNA for N-acetylglucosaminyltransferase "V", complete cds (p=D17716) (mtype=RNA)	20	20	20	20	20	20	20	20
D17718_s.at	Human mRNA for KIAA0119 "gene", complete cds	56	20	49	20	20	20	20	20
D17793_s.at	Human mRNA for KIAA0030 "gene", partial cds	232	650	212	593	24	105	50	894
D18043_s.at	Human mRNA for KIAA0030 "gene", partial cds	20	20	20	20	20	20	20	20
D18089_s.at	Human mRNA for XP-C repair complementing protein (pSMAHR239), complete cds	85	215	228	173	311	186	34	186
D18090_s.at	Human mRNA for KIAA0031 "gene", complete cds	51	25	66	56	20	20	20	20
D18173_s.at	Human mRNA for estrogen responsive "ligand" "protein", complete cds	28	20	20	20	20	20	20	20
D18174_s.at	Human mRNA for HHR23A "protein", complete cds	20	20	20	20	20	20	20	20
D18175_s.at	Human mRNA for C3G "protein", complete cds	21	43	56	101	53	83	20	83
D18176_s.at	ovary- and prostate-specific exon 1 from Human cytochrome P-450 aromatase "gene", multiple exons 1 and exon 2 (p=D18124) (mtype=DNA)	26	20	20	20	20	20	20	20
D18177_s.at	Human mRNA for "OB-cadherin-2", complete cds	77	20	20	20	20	20	20	20
D18260_s.at	Human mRNA for KIAA0034 "gene", complete cds	211	173	661	304	370	334	20	334
D18261_s.at	Human mRNA for KIAA0120 "gene", complete cds	623	312	706	887	1350	1788	20	1788
D18262_s.at	Human mRNA for KIAA0035 "gene", partial cds	17	20	20	20	20	20	20	20
D18263_s.at	Human mRNA for highly expressed protein	76	20	44	20	20	20	20	20
D18337_s.at	Human mRNA for collagen	20	56	40	20	20	20	20	20
D1851_s.at	Human mRNA for KIAA0028 "gene", partial cds	104	113	179	198	59	69	20	69
D1852_s.at	Human mRNA for KIAA0111 "gene", complete cds	20	20	20	20	20	20	20	20
D1853_s.at	Human mRNA for "BST-1", complete cds	199	90	267	235	79	194	20	194
D18578_s.at	Human mRNA for ribosomal "protein", complete cds	20	20	20	20	20	20	20	20
D18660_s.at	Human mRNA for ubiquitin-like "protein", complete cds	5345	4257	5788	9243	1435	2421	20	2421
D18673_s.at	Human "mRNA", clone HH109 (screened by the monoclonal antibody of insulin receptor substrate-1 (IRS-1))	417	496	587	435	247	400	20	400
D18674_s.at	Human mRNA for KIAA0032 "gene", complete cds	312	401	620	315	564	448	20	448
D18675_s.at	Human mRNA for KIAA0032 "gene", complete cds	34	22	24	20	80	21	20	21
D18676_s.at	Human mRNA for KIAA0033 "gene", complete cds	127	265	561	474	572	532	20	532
D18677_s.at	Human mRNA for KIAA0027 "gene", partial cds	133	70	117	42	128	20	20	20
D18678_s.at	Human mRNA for KIAA0112 "gene", partial cds	300	43	182	51	718	20	20	20
D18679_s.at	Human randomly sequenced mRNA	124	57	95	20	508	20	20	20
D18680_s.at	Human mRNA for KIAA0038 "gene", complete cds	316	342	585	330	309	294	20	294
D18681_s.at	Human mRNA for insulin alpha "subunit", complete cds	87	86	50	26	45	119	20	119
D18682_s.at	Human mRNA for KIAA0038 "gene", partial cds	88	52	20	20	20	167	20	167
D18683_s.at	Human mRNA for pleckstrin-type "phosphatidylinositol", complete cds	27	20	20	20	20	20	20	20
D18684_s.at	Human mRNA for KIAA0037 "gene", complete cds	20	20	20	20	20	20	20	20
D18685_s.at	Human mRNA for KIAA0039 "gene", complete cds	96	50	87	36	70	20	20	20
D18686_s.at	Human mRNA for PI3K "isoform 1", complete cds	54	20	20	23	148	20	20	20
D18687_s.at	Human mRNA for KIAA0039 "gene", partial cds	43	20	91	20	98	23	20	23
D18688_s.at	Human mRNA for KIAA0039 "gene", partial cds	20	28	20	28	20	20	20	20
D18689_s.at	Human mRNA for KIAA0041 "gene", partial cds	821	323	554	438	29	408	20	408
D18690_s.at	Human mRNA for type 1 "isoform 1, 4, 5-trisphosphate" "receptor", complete cds	20	20	20	20	20	20	20	20
D18691_s.at	Human mRNA for type 1 "isoform 1, 4, 5-trisphosphate" "receptor", complete cds	27	25	21	20	54	41	20	41
D18692_s.at	Human mRNA for diacylglycerol kinase "gamma", complete cds	20	20	20	20	20	20	20	20
D18693_s.at	Human mRNA for transcriptional activator "TSGF2", complete cds	20	20	20	20	20	20	20	20
D18694_s.at	Human mRNA for transcriptional activator "TSGF2", complete cds	186	36	268	312	116	228	20	228
D18695_s.at	Human mRNA for NADPH-kinase "reductase", complete cds	554	270	33	188	259	255	20	255
D18696_s.at	Human mRNA for type 2 "isoform 1, 4, 5-trisphosphate" "receptor", complete cds	20	20	20	20	20	20	20	20
D18697_s.at	Human mRNA for KIAA0043 "gene", complete cds	20	20	20	20	20	20	20	20
D18698_s.at	Human mRNA for KIAA0043 "gene", complete cds	20	20	20	20	20	20	20	20
D18699_s.at	Human mRNA for KIAA0043 "gene", complete cds	20	20	20	20	20	20	20	20
D18700_s.at	Human gene for oligonucleotide "succinate dehydrogenase", complete cds (exon 1-15)	43	87	232	108	43	36	20	36
D18701_s.at	Human papillomavirus 5b genome integrated into human carcinoma DNA	20	20	20	20	20	20	20	20
D18702_s.at	Human papillomavirus 5b genome integrated into human carcinoma DNA	63	47	75	20	20	20	20	20
D18703_s.at	Human papillomavirus 5b genome integrated into human carcinoma DNA	20	20	20	20	20	20	20	20
D18704_s.at	Human mRNA for transmembrane "protein", complete cds	20	33	20	20	20	20	20	20
D18705_s.at	Human mRNA for proteasome subunit "Hsc70", complete cds	68	99	20	141	118	209	20	209
D18706_s.at	Human mRNA for proteasome subunit "Hsc71", complete cds	359	384	440	344	243	512	20	512
D18707_s.at	Human mRNA for proteasome subunit "Hsc71", complete cds	387	269	332	358	375	557	20	557
D18708_s.at	Human mRNA for proteasome subunit "Hsc71", complete cds	70	218	251	178	184	261	20	261

Gene	Accession	Size (bp)	GC (%)	Exons	Introns	UTR	5'UTR	3'UTR	ORF	Protein	Function	Ref
Human mRNA for HSPB2 (myelin-associated oligodendrocyte basic protein), complete cds	U00002	56	50	1	0	135	46	20	181			
Human mRNA for "DB1", complete cds	U00003	27	50	1	0	48	66	20	442			
Human mRNA for unknown "product", complete cds	U00004	952	54	60	342	348	198	188	485			
Human mRNA for "B3T-2", complete cds	U00005	176	54	37	31	342	198	188	485			
Human PTGS2 gene for prostaglandin endoperoxide synthase-2, complete cds	U00006	47	37	31	41	55	48	128	47			
Human mRNA for anionin "I", 5'UTR (sequence from the 5'cap to the start codon)	U00007	209	187	20	20	218	165	354	185			
Human mRNA for ATP synthase B "chain", 5'UTR (sequence from the 5'cap to the start codon)	U00008	319	192	20	20	218	165	354	185			
Human mRNA for estrogen D, 5'UTR (sequence from the 5'cap to the start codon)	U00009	201	187	20	20	218	165	354	185			
Human mRNA for pre-mRNA splicing factor "SFR20", 5'UTR (sequence from the 5'cap to the start codon)	U00010	21	91	257	104	104	104	104	104			
Human T-lymphocyte mRNA for isocytidine "synthase", complete cds	U00011	58	115	257	104	104	104	104	104			
Human mRNA for KIAA0045 "gene", complete cds	U00012	78	68	204	45	58	20	139	139			
Human scd3 mRNA for RNA binding protein "SCD3", complete cds	U00013	87	44	20	76	215	40	134	134			
Human mRNA for renal Na+-dependent phosphate cotransporter, complete cds	U00014	89	73	31	31	40	69	69	69			
Human mRNA for metacrotic glutamate receptor subtype "5b", complete cds	U00015	20	20	20	20	20	20	20	20			
Human mRNA for KIAA0048 "gene", complete cds	U00016	38	34	180	20	20	41	41	41			
Human mRNA for KIAA0049 "gene", complete cds	U00017	38	34	180	20	20	41	41	41			
Human P1C4 "gene", 5' flanking region and	U00018	20	20	20	20	20	20	20	20			
Human mRNA for beta-tubulin C-actin and microtubular associated protein "44", complete cds	U00019	63	53	20	20	20	20	20	20			
Human mRNA for RNA polymerase beta, complete cds	U00020	50	58	44	43	85	154	154	154			
Human mRNA for RNA polymerase beta, complete cds	U00021	71	46	140	110	110	110	110	110			
Human mRNA for KIAA0051 "gene", complete cds	U00022	45	32	227	137	137	137	137	137			
Human mRNA for KIAA0052 "gene", complete cds	U00023	98	77	42	51	22	22	22	22			
Human mRNA for KIAA0053 "gene", complete cds	U00024	78	36	30	30	30	30	30	30			
Human mRNA for KIAA0054 "gene", complete cds	U00025	221	120	273	237	208	72	72	72			
Human inducible nitric oxide synthase "gene", promoter and exon 1; gp-D29675 nttype-DNA flanking-region	U00026	20	20	20	20	20	20	20	20			
Human mRNA for KIAA0055 "gene", complete cds	U00027	65	93	75	121	705	111	111	111			
Human mRNA for beta-1,4-galactosyltransferase, complete cds	U00028	291	77	171	116	96	82	82	82			
Human mRNA for unknown "product", partial cds	U00029	29	29	20	20	20	20	20	20			
Human mRNA for salivary proline rich peptide "5-B", complete cds	U00030	159	120	203	146	449	397	397	397			
Human mRNA for KIAA0056 "gene", complete cds	U00031	20	49	21	74	20	20	20	20			
Human mRNA for KIAA0055 "gene", complete cds	U00032	63	39	39	68	33	55	55	55			
Human SFA1 (a member of transmembrane 4 superfamily) "mRNA", complete cds	U00033	277	482	415	415	475	331	331	331			









Accession	Gene	Protein	Length	Weight	PI	Inst	Source
D64109	Human mRNA for Ibb family, complete cds	Ibb family	300	327	419	523	398
D64110	Human mRNA for Ibb family, complete cds	Ibb family	76	60	183	20	20
D64112	Human mRNA for histone H1L, complete cds	Histone H1L	94	227	358	77	251
D64114	Human mRNA for Mr "110,000" antigen, complete cds	Mr "110,000" antigen	100	114	96	152	190
D64115	Human mRNA for A1P binding protein associated with cell differentiation, partial cds, (p=D64158) (mtype=RNA)	A1P binding protein	40	42	110	56	97
D64116	Human mRNA		20	20	20	20	20
D64117	Human mRNA for Ibb family, complete cds	Ibb family	20	20	20	20	20
D64118	Human mRNA for Ddc2 beta, complete cds	Ddc2 beta	20	20	20	20	20
D64119	Human mRNA for Zc protein, complete cds	Zc protein	20	20	20	20	20
D64120	Human mRNA for Zc protein, complete cds	Zc protein	20	20	20	20	20
D64121	Human mRNA for Zc protein, complete cds	Zc protein	20	20	20	20	20
D64122	Human mRNA for Zc protein, complete cds	Zc protein	20	20	20	20	20
D64123	Human mRNA for Zc protein, complete cds	Zc protein	20	20	20	20	20
D64124	Human mRNA for Zc protein, complete cds	Zc protein	20	20	20	20	20
D64125	Human mRNA for Zc protein, complete cds	Zc protein	20	20	20	20	20
D64126	Human mRNA for Zc protein, complete cds	Zc protein	20	20	20	20	20
D64127	Human mRNA for Zc protein, complete cds	Zc protein	20	20	20	20	20
D64128	Human mRNA for Zc protein, complete cds	Zc protein	20	20	20	20	20
D64129	Human mRNA for Zc protein, complete cds	Zc protein	20	20	20	20	20
D64130	Human mRNA for Zc protein, complete cds	Zc protein	20	20	20	20	20
D64131	Human mRNA for Zc protein, complete cds	Zc protein	20	20	20	20	20
D64132	Human mRNA for Zc protein, complete cds	Zc protein	20	20	20	20	20
D64133	Human mRNA for Zc protein, complete cds	Zc protein	20	20	20	20	20
D64134	Human mRNA for Zc protein, complete cds	Zc protein	20	20	20	20	20
D64135	Human mRNA for Zc protein, complete cds	Zc protein	20	20	20	20	20
D64136	Human mRNA for Zc protein, complete cds	Zc protein	20	20	20	20	20
D64137	Human mRNA for Zc protein, complete cds	Zc protein	20	20	20	20	20
D64138	Human mRNA for Zc protein, complete cds	Zc protein	20	20	20	20	20
D64139	Human mRNA for Zc protein, complete cds	Zc protein	20	20	20	20	20
D64140	Human mRNA for Zc protein, complete cds	Zc protein	20	20	20	20	20
D64141	Human mRNA for Zc protein, complete cds	Zc protein	20	20	20	20	20
D64142	Human mRNA for Zc protein, complete cds	Zc protein	20	20	20	20	20
D64143	Human mRNA for Zc protein, complete cds	Zc protein	20	20	20	20	20
D64144	Human mRNA for Zc protein, complete cds	Zc protein	20	20	20	20	20
D64145	Human mRNA for Zc protein, complete cds	Zc protein	20	20	20	20	20
D64146	Human mRNA for Zc protein, complete cds	Zc protein	20	20	20	20	20
D64147	Human mRNA for Zc protein, complete cds	Zc protein	20	20	20	20	20
D64148	Human mRNA for Zc protein, complete cds	Zc protein	20	20	20	20	20
D64149	Human mRNA for Zc protein, complete cds	Zc protein	20	20	20	20	20
D64150	Human mRNA for Zc protein, complete cds	Zc protein	20	20	20	20	20
D64151	Human mRNA for Zc protein, complete cds	Zc protein	20	20	20	20	20
D64152	Human mRNA for Zc protein, complete cds	Zc protein	20	20	20	20	20
D64153	Human mRNA for Zc protein, complete cds	Zc protein	20	20	20	20	20
D64154	Human mRNA for Zc protein, complete cds	Zc protein	20	20	20	20	20
D64155	Human mRNA for Zc protein, complete cds	Zc protein	20	20	20	20	20
D64156	Human mRNA for Zc protein, complete cds	Zc protein	20	20	20	20	20
D64157	Human mRNA for Zc protein, complete cds	Zc protein	20	20	20	20	20
D64158	Human mRNA for Zc protein, complete cds	Zc protein	20	20	20	20	20
D64159	Human mRNA for Zc protein, complete cds	Zc protein	20	20	20	20	20



Expressed RNA in Suburothelial connective tissue, Normal urothelium and Transitional cell carcinomas									
D88550_at	Human mRNA for serine/threonine protein kinase, complete cds	48	23	64	48	44	48	20	20
D88640_at	Human mRNA for "hsc", complete cds	52	20	89	52	69	20	20	52
D88950_at	Human mRNA for KIAA0201 "gene", partial cds	25	106	45	20	69	20	20	67
D88951_at	Human mRNA for KIAA0202 "gene", complete cds	20	20	20	20	43	20	20	95
D88955_at	Human mRNA for KIAA0203 "gene", complete cds	60	36	102	58	20	39	20	20
D88960_at	Human mRNA for KIAA0205 "gene", complete cds	20	37	53	47	23	20	20	42
D88961_at	Human mRNA for KIAA0208 "gene", partial cds	31	41	20	35	20	20	20	67
D88962_at	Human mRNA for KIAA0207 "gene", complete cds	74	91	171	81	81	20	20	55
D88963_at	Human mRNA for KIAA0208 "gene", complete cds	128	20	154	86	20	20	20	65
D88964_at	Human mRNA for KIAA0209 "gene", partial cds	58	20	20	20	20	20	20	97
D88965_at	Human mRNA for KIAA0210 "gene", complete cds	155	215	98	148	189	200	200	361
D88966_at	Human mRNA for KIAA0211 "gene", complete cds	73	80	92	135	255	165	165	165
D88967_at	Human mRNA for KIAA0212 "gene", complete cds	168	41	54	104	318	138	138	138
D88968_at	Human mRNA for KIAA0213 "gene", partial cds	20	20	20	20	20	20	20	20
D88969_at	Human mRNA for KIAA0215 "gene", complete cds	33	41	20	20	20	20	20	20
D88970_at	Human mRNA for KIAA0216 "gene", complete cds	71	20	20	20	20	20	20	20
D88971_at	Human mRNA for KIAA0217 "gene", partial cds	16	138	45	20	20	20	20	20
D88972_at	Human mRNA for KIAA0218 "gene", complete cds	20	20	137	73	427	20	20	144
D88973_at	Human mRNA for KIAA0219 "gene", complete cds	519	1977	4011	2341	4661	20	20	4376
D88974_at	Human mRNA for KIAA0220 "gene", partial cds	20	20	20	20	20	20	20	20
D88975_at	Human mRNA for KIAA0222 "gene", complete cds	91	76	20	62	28	20	20	20
D88976_at	Human mRNA for KIAA0223 "gene", partial cds	20	124	53	20	20	20	20	20
D88977_at	Human mRNA for KIAA0224 "gene", complete cds	66	133	20	55	118	20	20	106
D88978_at	Human mRNA for KIAA0225 "gene", partial cds	59	114	68	60	79	20	20	139
D88979_at	Human mRNA for KIAA0228 "gene", complete cds	20	20	20	20	48	20	20	31
D88980_at	Human mRNA for KIAA0227 "gene", partial cds	34	20	38	39	187	20	20	20
D88981_at	Human mRNA for KIAA0229 "gene", partial cds	52	77	121	64	160	20	20	132
D88982_at	Human mRNA for KIAA0230 "gene", partial cds	68	42	96	32	59	20	20	103
D88983_at	Human mRNA for KIAA0231 "gene", partial cds	43	58	53	20	162	20	20	20
D88984_at	Human mRNA for KIAA0232 "gene", complete cds	151	130	218	178	405	20	20	281
D88985_at	Human mRNA for KIAA0233 "gene", complete cds	20	20	20	20	20	20	20	20
D87002_cds_2	Human (lambda) DNA for immunoglobulin light chain	20	20	20	20	20	20	20	20
D87003_cds_3	Human (lambda) DNA for immunoglobulin light chain	20	20	20	20	20	20	20	20
D87011_at	Human (lambda) DNA for immunoglobulin light chain	23	20	20	20	20	20	20	20
D87012_at	Human (lambda) DNA for immunoglobulin light chain	222	270	369	344	176	20	20	224
D87017_cds_1	C7 segment gene extracted from Human (lambda) DNA for immunoglobulin light chain	94	53	20	20	20	20	20	31
D87023_cds_2	Human (lambda) DNA for immunoglobulin light chain	157	123	20	78	20	20	20	197
D87071_at	Human mRNA for KIAA0233 "gene", complete cds	24	39	27	20	20	20	20	202
D87073_at	Human mRNA for KIAA0236 "gene", complete cds	20	20	20	20	20	20	20	20
D87074_at	Human mRNA for KIAA0237 "gene", complete cds	28	20	71	54	246	109	20	20
D87075_at	Human mRNA for KIAA0238 "gene", partial cds	20	59	20	24	20	20	20	20
D87076_at	Human mRNA for KIAA0239 "gene", partial cds	28	20	20	20	20	20	20	20
D87077_at	Human mRNA for KIAA0240 "gene", partial cds	49	20	20	28	20	20	20	47
D87078_at	Human mRNA for KIAA0235 "gene", partial cds	81	86	20	58	20	20	20	84
D87116_at	Human carboxylous bone osteoblast mRNA for "GS3955", complete cds	43	85	20	20	20	20	20	20
D87119_at	Human carboxylous bone osteoblast mRNA for "GS3786", complete cds	20	20	37	53	20	49	32	20
D87120_at	Human carboxylous bone osteoblast mRNA for "GS3786", complete cds	20	20	20	20	20	20	20	20
D87127_at	Human mRNA for translocation "protein-1", complete cds	238	121	431	63	20	20	20	20
D87296_at	Human carboxylous bone osteoblast mRNA for serin protease with IGF-binding "molit", complete cds	500	311	205	188	254	20	20	242
D87328_at	Human mRNA for "HCS", complete cds	20	44	20	56	20	20	20	142
D87432_at	Human mRNA for KIAA0245 "gene", complete cds	20	20	20	20	20	20	20	20
D87433_at	Human mRNA for KIAA0246 "gene", partial cds	20	20	20	20	20	20	20	20
D87434_at	Human mRNA for KIAA0247 "gene", complete cds	77	23	56	33	48	64	64	64
D87435_at	Human mRNA for KIAA0248 "gene", partial cds	20	89	20	20	158	46	46	77
D87436_at	Human mRNA for KIAA0249 "gene", complete cds	26	28	20	20	20	20	20	44
D87437_at	Human mRNA for KIAA0250 "gene", complete cds	151	127	55	82	102	158	158	129
D87438_at	Human mRNA for KIAA0251 "gene", partial cds	20	134	235	133	235	20	20	20
D87440_at	Human mRNA for KIAA0252 "gene", partial cds	186	134	364	248	343	20	20	421
D87442_at	Human mRNA for KIAA0253 "gene", partial cds	52	22	20	20	20	20	20	20
D87443_at	Human mRNA for KIAA0254 "gene", complete cds	35	22	41	67	40	20	20	116
D87445_at	Human mRNA for KIAA0255 "gene", complete cds	35	20	20	20	20	20	20	20
D87446_at	Human mRNA for KIAA0256 "gene", partial cds	35	20	20	20	20	20	20	20
D87448_at	Human mRNA for KIAA0257 "gene", partial cds	20	20	91	181	181	20	20	181

[illegible]

Accession	Gene Name	Protein Name	Length	Weight	PI	Inst	Source	Species	Ref
U06008	Human pyruvate dehydrogenase (EC 1.2.4.1) beta subunit	Pyruvate dehydrogenase beta subunit	175	17.5	5.2	1	Human	Human	1
U06009	Human AMY2B gene for alpha-amylase	Alpha-amylase	201	20.1	5.4	1	Human	Human	1
U06010	Human mRNA for DNA binding protein TAXREB87	TAXREB87	380	38.0	5.0	1	Human	Human	1
U06011	Human mRNA for glycoprotein 34 (gp34)	Glycoprotein 34	245	24.5	5.0	1	Human	Human	1
U06012	Human CGMT gene for nonspecific cross-reacting antigen (NCA)	Nonspecific cross-reacting antigen	148	14.8	5.0	1	Human	Human	1
U06013	Human mRNA for collagen alpha 1(V) chain, complete cds	Collagen alpha 1(V) chain	200	20.0	5.0	1	Human	Human	1
U06014	Human carboxyl phosphate synthetase (EC 6.3.4.16) mRNA	Carboxyl phosphate synthetase	54	5.4	5.0	1	Human	Human	1
U06015	Human CCG1 mRNA	CCG1	200	20.0	5.0	1	Human	Human	1
U06016	yo16002 s1 Soares adult brain N2B51B55Y Homo sapiens cDNA clone 176083 3' similar to gpJ02625 CYTOCHROME P450 11E1 (HUM)	Cytochrome P450 11E1	200	20.0	5.0	1	Human	Human	1
U06017	Serine Kinase Pst-H1	Serine Kinase Pst-H1	200	20.0	5.0	1	Human	Human	1
U06018	"Alpase", Nav1/2 "Transporting", Alpha 1 Polypeptide	Alpase	200	20.0	5.0	1	Human	Human	1
U06019	Mucin (Gp M2/2408)	Mucin	200	20.0	5.0	1	Human	Human	1
U06020	Bone Morphogenetic Protein 3	Bone Morphogenetic Protein 3	200	20.0	5.0	1	Human	Human	1
U06021	Laminol Protein (Gp M2/232)	Laminol Protein	200	20.0	5.0	1	Human	Human	1
U06022	Cytosin D	Cytosin D	200	20.0	5.0	1	Human	Human	1
U06023	Heterogeneous Nuclear Ribonucleoprotein A/B	Heterogeneous Nuclear Ribonucleoprotein A/B	200	20.0	5.0	1	Human	Human	1
U06024	Rita-Related C3 Bovine Brain Tissue	Rita-Related C3	200	20.0	5.0	1	Human	Human	1
U06025	Guanine Nucleotide-Binding Protein, Rat, Ras-Oncogene Related	Guanine Nucleotide-Binding Protein	200	20.0	5.0	1	Human	Human	1
U06026	Ras-Like Protein T21	Ras-Like Protein T21	200	20.0	5.0	1	Human	Human	1
U06027	Ras-Like Protein T24	Ras-Like Protein T24	200	20.0	5.0	1	Human	Human	1
U06028	Proliferating Cell Nuclear Antigen, 120 Kds	Proliferating Cell Nuclear Antigen	200	20.0	5.0	1	Human	Human	1
U06029	PL306-Binding "Protein", Alt. Splice 2	PL306-Binding Protein	200	20.0	5.0	1	Human	Human	1
U06030	"Collagen", Type "VI", Alpha "2", Alt. Splice 2	Collagen	200	20.0	5.0	1	Human	Human	1
U06031	Lipopolysaccharide-Binding Protein	Lipopolysaccharide-Binding Protein	200	20.0	5.0	1	Human	Human	1
U06032	Nucleoside Diphosphate Kinase Nm23-H2a	Nucleoside Diphosphate Kinase	200	20.0	5.0	1	Human	Human	1
U06033	Colony-Stimulating Factor "1", "Macrophage", Alt. Splice 3	Colony-Stimulating Factor	200	20.0	5.0	1	Human	Human	1
U06034	Collagen, Type "IV", Alpha "2", N-Terminus	Collagen	200	20.0	5.0	1	Human	Human	1
U06035	"Collagen", Type "II", Alpha 1	Collagen	200	20.0	5.0	1	Human	Human	1
U06036	Small Nuclear Ribonucleoprotein, Polypeptide "C", Alt. Splice 2	Small Nuclear Ribonucleoprotein	200	20.0	5.0	1	Human	Human	1
U06037	Statthrin	Statthrin	200	20.0	5.0	1	Human	Human	1
U06038	Carbonyl "Methyltransferase", "Aspartate", Alt. Splice 1	Carbonyl Methyltransferase	200	20.0	5.0	1	Human	Human	1
U06039	Modulator Recognition Factor 2	Modulator Recognition Factor 2	200	20.0	5.0	1	Human	Human	1
U06040	"Globin", Beta	Globin	200	20.0	5.0	1	Human	Human	1
U06041	Proto-Oncogene Trk	Proto-Oncogene Trk	200	20.0	5.0	1	Human	Human	1
U06042	Transcription Factor "Oa-1a/1b", Alt. Splice "2", Oa-1b	Transcription Factor	200	20.0	5.0	1	Human	Human	1
U06043	Adrenomedullin Protein Pp2	Adrenomedullin Protein	200	20.0	5.0	1	Human	Human	1
U06044	Transcription Factor Bmb	Transcription Factor Bmb	200	20.0	5.0	1	Human	Human	1
U06045	Heterogeneous Nuclear Ribonucleoprotein "1", Alt. Splice "2", Pdb-1	Heterogeneous Nuclear Ribonucleoprotein	200	20.0</					

Expressed RNA in Subcutaneous connective tissue, Normal urothelium and Transitional cell carcinomas									
Gene	Accession	Size (bp)	Intensity	Ratio	Ratio	Ratio	Ratio	Ratio	Ratio
Myelin Basic Protein, "Alt. Splice Form 4"	U00001	20	20	20	20	20	20	20	20
Tubulin, Beta 2	U00002	20	20	20	20	20	20	20	20
Quantine Nucleotide-Binding Protein "Rap2", Ras-Oncogene Related	U00003	20	20	20	20	20	20	20	20
Proto-Oncogene "Sox", Alt. Splice N	U00004	20	20	20	20	20	20	20	20
Laminin, A Polypeptide	U00005	20	20	20	20	20	20	20	20
Stimulatory GTP/GDP Exchange Protein For C-Ki-Ras P21 And Smg P21	U00006	20	20	20	20	20	20	20	20
Arrestin, Beta 2	U00007	20	20	20	20	20	20	20	20
Calcium-Responsive Element "Modulator", Alt. Splice 1	U00008	20	20	20	20	20	20	20	20
External Membrane Protein, 130 KDa (G0 Z22671)	U00009	20	20	20	20	20	20	20	20
Gelsolin	U00010	20	20	20	20	20	20	20	20
Beta-1-Glycoprotein "1", Pregnancy-Specific (G0 M25384)	U00011	20	20	20	20	20	20	20	20
Mucin "3", Intestinal (G0 M55405)	U00012	20	20	20	20	20	20	20	20
Mucin "3", Intestinal (G0 M55406)	U00013	20	20	20	20	20	20	20	20
Mucin (G0 M57417)	U00014	20	20	20	20	20	20	20	20
Zinc Finger Protein 92	U00015	20	20	20	20	20	20	20	20
Mucin "4", Tracheobronchial	U00016	20	20	20	20	20	20	20	20
Translocation-Associated Nucleic Acid (Transposon) Homolog 1	U00017	20	20	20	20	20	20	20	20
Protein Kinase "p31", C-terminus	U00018	20	20	20	20	20	20	20	20
12-Lipoxygenase	U00019	20	20	20	20	20	20	20	20
Myosin "Heavy Polypeptide", Non-Muscle	U00020	20	20	20	20	20	20	20	20
Paired Box Homeo 1 (G0 X15042)	U00021	20	20	20	20	20	20	20	20
Crystallin, Beta B3 (G0 X15144)	U00022	20	20	20	20	20	20	20	20
Crystallin, Beta B3 (G0 X15145)	U00023	20	20	20	20	20	20	20	20
"Catalogue", Type "A", Alpha 1	U00024	20	20	20	20	20	20	20	20
Crystallin, Beta 6	U00025	20	20	20	20	20	20	20	20
Paired Box Homeo 1 (G0 X15250)	U00026	20	20	20	20	20	20	20	20
Nuclear Mitotic Apparatus Protein "1", Alt. Splice Form 2	U00027	20	20	20	20	20	20	20	20
Potassium Channel Protein (G0 Z11585)	U00028	20	20	20	20	20	20	20	20
Potassium Channel Protein (G0 Z11585)	U00029	20	20	20	20	20	20	20	20
Major Intrinsic Protein	U00030	20	20	20	20	20	20	20	20
Phosphoribosyl Pyrophosphate "Synthetase", Subunit III	U00031	20	20	20	20	20	20	20	20
"Tubulin", Alpha "1", Isoform 44	U00032	20	20	20	20	20	20	20	20
Duchenne Muscular Dystrophy Protein (Dmd)	U00033	20	20	20	20	20	20	20	20
"Antigen", Prostate "Specific", Alt. Splice Form 2	U00034	20	20	20	20	20	20	20	20
"Antigen", Prostate "Specific", Alt. Splice Form 3	U00035	20	20	20	20	20	20	20	20
Alpase, Ca2+ "Transporting", Plasma Membrane "1", Alt. Splice 6	U00036	20	20	20	20	20	20	20	20
Profilin	U00037	20	20	20	20	20	20	20	20
Profilin, "14.5 KDa Subunit"	U00038	20	20	20	20	20	20	20	20
Thyroglobulin, "14.5 KDa Subunit"	U00039	20	20	20	20	20	20	20	20
D-Amino-Acid Oxidase	U00040	20	20	20	20	20	20	20	20
Calretinin	U00041	20	20	20	20	20	20	20	20
Insulin-Like Growth Factor II	U00042	20	20	20	20	20	20	20	20
4-Beta-Galactosyltransferase	U00043	20	20	20	20	20	20	20	20
Integrin, Beta 3 Subunit	U00044	20	20	20	20	20	20	20	20
Retinoid Acid "Receptor", Gamma 2	U00045	20	20	20	20	20	20	20	20
Nuclear Factor "1", Variant Hepatic	U00046	20	20	20	20	20	20	20	20
Peptide YY	U00047	20	20	20	20	20	20	20	20
Proto-Oncogene "Ets-1", Alt. Splice 2	U00048	20	20	20	20	20	20	20	20
Glyceraldehyde-3-Phosphate Dehydrogenase (G0 K03121)	U00049	20	20	20	20	20	20	20	20
Trithorax Homolog Hlx	U00050	20	20	20	20	20	20	20	20
Serine "Hydroxymethyltransferase", "Cytosolic", Alt. Splice 2	U00051	20	20	20	20	20	20	20	20
Serine "Hydroxymethyltransferase", "Cytosolic", Alt. Splice 3	U00052	20	20	20	20	20	20	20	20
Adp-Ribosylarginine Hydrolase	U00053	20	20	20	20	20	20	20	20
Cytidine Deaminase	U00054	20	20	20	20	20	20	20	20
Prostaglandin Receptor Ep1 Subtype	U00055	20	20	20	20	20	20	20	20
Transcription Factor E2F2	U00056	20	20	20	20	20	20	20	20
Gal Beta "1,3/4" Glucosyltransferase	U00057	20	20	20	20	20	20	20	20
Dynein, Heavy Chain, Cytoplasmic	U00058	20	20	20	20	20	20	20	20
Low Molecular Weight Synaptic Protein	U00059	20	20	20	20	20	20	20	20
Retinoblastoma Protein, Mutated	U00060	20	20	20	20	20	20	20	20
Tropomyosin, "Alpha", Muscle, Alt. Splice "2", Skeletal Muscle (Fibroblast)	U00061	20	20	20	20	20	20	20	20
Integrin Beta 1 (G0 M04189)	U00062	20	20	20	20	20	20	20	20



Gene	Accession	Length (bp)	GC (%)	Exons	Introns	UTR	5'UTR	3'UTR	Start	Stop	ORF	Protein	Size (aa)	Weight (kDa)	PI	Ref
Guanine Nucleotide-Binding Protein G234	U00001	194	63	144	125	243	192									
Dna-Binding Protein "A2", Alt. Splice 3	U00002	45	37	27												
Helix-Loop-Helix Protein Set2, Ig	U00003	194	63	144	125	243	192									
Frnp-Related Receptor 1	U00004	45	37	27												
Guanylate Receptor Subunit	U00005	45	37	27												
Potassium "Channel", Voltage-Gated Kcnc1	U00006	47	33	82	43	20	20									
Ras-Specific Guanine Nucleotide-Releasing Factor	U00007	47	33	82	43	20	20									
Helix-Loop-Helix Protein Delta "Wax", Alt. Splice 1	U00008	54	20	20	20	20	20									
Adenyl Cyclase-Associated Protein 2	U00009	63	20	20	20	20	20									
Heterogeneous Nuclear Ribonucleoprotein C	U00010	63	55	20	48	348	250									
A-Myo (Gp X13294)	U00011	20	20	20	20	105										
Gamma-Aminobutyric Acid (Gaba) "A" Receptor, Alpha Subunit	U00012	20	20	20	20	30										
Microtubule-Associated Protein Tau, Alt. Splice 3, Exon 8	U00013	20	20	20	20	30										
Microtubule-Associated Protein Tau, Alt. Splice 3, Exon 8	U00014	20	20	20	20	30										
Zinc Finger Protein Knp (Gp X16576)	U00015	20	20	20	20	30										
Transcription Factor Ht1	U00016	20	20	20	20	30										
Guanine Nucleotide-Binding Protein "Reg2b", Ras-Oncogene Related	U00017	20	20	20	20	30										
Succinate Dehydrogenase, Flavoprotein Subunit	U00018	20	20	20	20	30										
Collagen, Type "VIII", Alpha 1	U00019	20	20	20	20	30										
Single-Stranded Dna-Binding Protein Msp1	U00020	20	20	20	20	30										
Serine/Threonine Protein Kinase Cdk3	U00021	20	20	20	20	30										
Homeotic Protein Emx1	U00022	20	20	20	20	30										
Homeotic Protein Emx2	U00023	20	20	20	20	30										
Bradykinin Receptor	U00024	20	20	20	20	30										
Ryanodine Receptor 3	U00025	20	20	20	20	30										
Mucin "5b", Tracheobronchial (Gp X74955)	U00026	20	20	20	20	30										
Lymphocyte Chemoattractant Factor	U00027	20	20	20	20	30										
Serine/Threonine Kinase (Gp Z25424)	U00028	20	20	20	20	30										
Serine/Threonine Kinase (Gp Z25427)	U00029	20	20	20	20	30										
Serine/Threonine Kinase (Gp Z25428)	U00030	20	20	20	20	30										
Serine/Threonine Kinase (Gp Z25429)	U00031	20	20	20	20	30										

Expressed RNA in Suburothelial connective tissue, Normal urothelium and Transitional cell carcinomas									
RG2874-H13018 at	Ribosomal Protein L39 Homolog	20	20	20	20	20	20	20	20
RG2887-H13031 at	Sy-Related Ring Box 12 Protein (Gb X13038)	20	20	20	20	20	20	20	20
RG2887-H13031 at	Sy-Related Ring Box 12 Protein (Gb X13038)	20	20	20	20	20	20	20	20
RG2915-H13059 at	Major Histocompatibility Complex, Class II, E (Gb M20022)	351	720	584	735	345	550	380	550
RG2917-H13061 at	Major Histocompatibility Complex, Class II, E (Gb M21555)	170	663	554	642	257	380	157	380
RG2938-H13080 at	Immunoglobulin Heavy Chain, Enhancer Element	58	31	51	117	237	157	380	157
RG2981-H13125 at	"Epican," Alt. Splice 1	75	82	39	99	20	20	20	20
RG2981-H13127 at	"Epican," Alt. Splice 11	75	82	39	99	20	20	20	20
RG2981-H13127 at	"Epican," Alt. Splice 12	75	82	39	99	20	20	20	20
RG2987-H13136 at	Vasodilator Intestinal Peptide	33	26	20	61	28	20	20	20
RG2987-H13136 at	Beta-Hexosaminidase, Alpha	33	26	20	61	28	20	20	20
RG2992-H13186 at	"Elastin," Alt. Splice 2	346	385	615	341	218	123	123	123
RG2994-H14850 at	Thyroid Peroxidase, Alt. Splice 2	20	20	20	20	20	20	20	20
RG2995-H14756 at	Thyroid Peroxidase, Alt. Splice 2	20	20	20	20	20	20	20	20
RG3033-H13194 at	Spliceosomal Protein Sep 62	20	20	20	20	20	20	20	20
RG3033-H13194 at	Spliceosomal Protein Sep 62	20	20	20	20	20	20	20	20
RG3033-H13200 at	ADP-Ribosylation-Like Factor	76	23	20	52	412	387	387	387
RG3044-H13742 at	"Fibronectin," Alt. Splice 1	176	20	20	20	20	20	20	20
RG3063-H13224 at	Major Histocompatibility Complex, Class I (Gb L19653)	40	20	20	20	20	20	20	20
RG3075-H13238 at	Focal Adhesion Kinase	239	346	135	548	36	247	247	247
RG3078-H13238 at	Heterogeneous Nuclear Ribonucleoprotein K, Alt. Splice 1	25	20	20	20	20	20	20	20
RG3085-H13254 at	Phosphodiesterase	20	20	20	20	20	20	20	20
RG3085-H13254 at	Splicing Factor "SC35," Alt. Splice Form 3	20	20	20	20	20	20	20	20
RG3104-H13280 at	Serine Protease Mat 1	20	20	20	20	20	20	20	20
RG3105-H13281 at	"Alpase," Cyt+ Transporting	47	20	20	20	20	20	20	20
RG3107-H13285 at	Plasma Membrane Calcium Pump Hymc2a	1067	1464	1984	1421	542	749	749	749
RG3111-H13287 at	Ribosomal Protein L30	20	20	20	20	20	20	20	20
RG3111-H13287 at	Autoantigen (Gb S97069)	20	20	20	20	20	20	20	20
RG3115-H13291 at	Goli-Mbp (Gb L18852)	20	20	20	20	20	20	20	20
RG3117-H13293 at	Mps1 (Gb L20314)	20	20	20	20	20	20	20	20
RG3123-H13299 at	Homeotic Protein Cbx2	20	20	20	20	20	20	20	20
RG3125-H13301 at	Estrogen Receptor (Gb S67777)	41	48	55	56	203	55	55	55
RG3125-H13301 at	Cas "Family," Bi-Like Domain	41	48	55	56	203	55	55	55
RG3132-H13308 at	Zinc Finger Protein Znf81 (Gb X0729)	84	38	20	41	20	20	20	20
RG3137-H13315 at	NADH-Ubiquinol Oxidoreductase, 39 Kda Subunit	30	56	45	20	136	54	54	54
RG3137-H13315 at	Major Histocompatibility Complex, Class III, "Rp1," Alt. Splice 1	159	212	20	82	181	179	179	179
RG3137-H13315 at	Beta-1-Glycoprotein "11," Pregnancy-Specific	241	212	58	205	420	380	380	380
RG3137-H13315 at	Transcription Factor Ila	86	91	122	80	120	48	48	48
RG3175-H13352 at	Carcinoembryonic Antigen	20	20	20	20	20	20	20	20
RG3175-H13352 at	Tyrosine Phosphatase "1," Non-Receptor, Alt. Splice 3	20	20	20	20	20	20	20	20
RG3187-H13365 at	Measles Nucleocapsid Protein	4965	8581	5804	4889	3342	3701	3701	3701
RG3214-H13391 at	Guanine Nucleotide-Binding Protein Hs1	148	20	20	26	277	20	20	20
RG3221-H13404 at	Retinoblastoma "Receptor," Alt. Splice 1	20	20	20	20	20	20	20	20
RG3221-H13404 at	Neurofibromin 2 Tumor Suppressor (Gb L27055)	490	635	389	807	1803	837	837	837
RG3228-H13413 at	Calcium Channel, Voltage-Gated, Alpha 1c "Subunit," Alt. Splice 2	20	20	20	20	20	20	20	20
RG3242-H13419 at	Calcium Channel, Voltage-Gated, Alpha 1c "Subunit," Alt. Splice 3	20	20	20	20	20	20	20	20
RG3242-H13419 at	Calcium Channel, Voltage-Gated, Alpha 1c "Subunit," Alt. Splice 3	20	20	20	20	20	20	20	20
RG3244-H13425 at	Fibroblast Growth Factor, Antisense Mra	48	20	20	49	20	20	20	20
RG3254-H13431 at	Phosphotyrosine 3-Kinase "P110," Beta Isoform	75	30	20	142	104	104	104	104
RG3255-H13432 at	Genome-Anthracycline Acid (Gaba) A Receptor Beta 2 Subunit	103	67	68	69	20	213	213	213
RG3255-H13432 at	ATG (Gb U02478)	135	31	33	35	531	147	147	147
RG3255-H13432 at	Cytoskeleton, Alpha A	20	20	20	20	20	20	20	20
RG3258-H13463 at	Xanthine Dehydrogenase (Gb U06117)	20	20	108	29	20	55	55	55
RG3259-H13476 at	Acetyl-Coenzyme A Carboxylase	20	20	2566	2515	413	951	951	951
RG333-H1373 at	Tenascin	2077	1377	2566	2515	413	951	951	951
RG3311-H1331 at	Thyroid Hormone "Receptor," Beta-2	20	20	20	20	20	20	20	20
RG3311-H1331 at	Spill Gene 1 "Epican," Top-Like	20	20	20	20	20	20	20	20
RG3311-H1331 at	Dna-Binding Protein Hm2	49	61	169	128	475	72	72	72
RG3324-H13319 at	Ubiquitin-Conjugating Enzyme Uba5	660	1617	3768	3501	985	795	795	795
RG3344-H13321 at	Poa Domain-Containing Protein (Gb L21055)	20	21	102	27	20	20	20	20
RG3345-H13322 at	Peritonsillar Proliferator Activated Receptor (Gb Z30972)	20	20	20	20	20	20	20	20
RG3355-H13352 at	Chromosomal Translocation Associated Gene Lig 19Ea	131	123	213	154	214	228	228	228
RG3362-H13359 at	Ribosomal Protein L37	4242	5937	6423	5602	3878	3233	3233	3233
RG3364-H13354 at	Potassium Channel, "Voltage-Gated," Is-Related "Family," Member 1	20	20	20	20	20	20	20	20
RG3368-H13356 at	"Only Homolog (Gb X63369)," Alt. Splice Form 2	20	20	20	20	20	20	20	20
RG3385-H13373 at	Nestin	20	20	20	20	20	20	20	20
RG3400-H13379 at	Nestin	20	20	20	20	20	20	20	20

Expressed RNA in Suburothelial Connective Tissue, Normal urothelium and Transitional cell carcinomas											
HG3405-HT3586	Zinc Finger Protein HZF3 (G5X6015)	72	20	20	20	20	20	20	20	20	20
HG3412-HT3585	Blue Cone Photoreceptor Pigment	120	38	149	127	174	164	20	20	20	20
HG3415-HT3588	Protein Kinase C- $\delta$	43	67	63	52	52	74	20	20	20	20
HG3417-HT3600	Glycylglycine 1, Alt. Splice 1	126	1529	37	40	20	21	20	20	20	20
HG3420-HT3610	Zinc Finger Protein Tcd-15, "Knopp-Like", Alt. Splice 1	35	29	78	20	42	97	20	20	20	20
HG3431-HT3616	Decorin, Alt. Splice 1	20	20	20	20	20	64	20	20	20	20
HG3432-HT3618	Fibronectin Growth Factor Receptor "K-Sam", Alt. Splice 1	20	20	20	20	20	47	20	20	20	20
HG3432-HT3620	Fibronectin Growth Factor Receptor "K-Sam", Alt. Splice 2	20	20	20	20	20	66	20	20	20	20
HG3433-HT3621	Fibronectin Growth Factor Receptor "K-Sam", Alt. Splice 3	20	20	20	20	20	47	20	20	20	20
HG3437-HT3628	Myelin Proteolipid Protein, Alt. Splice 2	20	20	20	20	20	20	20	20	20	20
HG3454-HT3647	Zinc Finger Protein 20	20	20	20	20	20	20	20	20	20	20
HG3477-HT3670	Cd4 Antigen	20	20	20	20	20	20	20	20	20	20
HG3484-HT3678	Protein Kinase (G5 M59287)	20	20	20	20	20	20	20	20	20	20
HG3489-HT3685	Zinc Finger Protein Zfp-36	20	20	20	20	20	20	20	20	20	20
HG3492-HT3690	Uncoupling Protein Ucp	20	20	20	20	20	20	20	20	20	20
HG3494-HT3698	Nuclear Factor NF- $\kappa$ B	20	20	20	20	20	20	20	20	20	20
HG3495-HT3699	Collagen, Type I $\alpha$ , Alpha 1	20	20	20	20	20	20	20	20	20	20
HG3495-HT3704	Homeotic Protein Hox-5.4	20	20	20	20	20	20	20	20	20	20
HG3510-HT3704	V-ErbA Related Egr-3 Protein	20	20	20	20	20	20	20	20	20	20
HG3513-HT3707	"Myosin", Heavy, "Polypeptide", Light Monomeric	20	20	20	20	20	20	20	20	20	20
HG3514-HT3708	Tropomyosin "Tm300m", Cysteine	20	20	20	20	20	20	20	20	20	20
HG3517-HT3711	Alpha-1-Antitrypsin, S End	20	20	20	20	20	20	20	20	20	20
HG3521-HT3715	Rea-Related Protein Reptb	20	20	20	20	20	20	20	20	20	20
HG3523-HT4899	Proto-Oncogene "C-Myc", Alt. Splice 2, Or 114	20	20	20	20	20	20	20	20	20	20
HG3527-HT3721	Luteinizing Hormone, Beta Subunit	20	20	20	20	20	20	20	20	20	20
HG3543-HT3739	Insulin-Like Growth Factor 2	20	20	20	20	20	20	20	20	20	20
HG3546-HT3744	Pre-MRNA Splicing Factor "Srp33", Alt. Splice Form 1	20	20	20	20	20	20	20	20	20	20
HG3548-HT3749	Cas-2 Displacement Protein, Cyt. Homolog, Alt. Splice 1	20	20	20	20	20	20	20	20	20	20
HG3549-HT3751	Wilms' Tumor-Related Protein	20	20	20	20	20	20	20	20	20	20
HG3553-HT3768	Zinc Finger Protein (G5 M88357)	20	20	20	20	20	20	20	20	20	20
HG3565-HT3768	Zinc Finger Protein (G5 M88357)	20	20	20	20	20	20	20	20	20	20
HG3566-HT3769	Zinc Finger Protein (G5 M88359)	20	20	20	20	20	20	20	20	20	20
HG3570-HT3773	Major Histocompatibility Complex, Class II Beta W52	20	20	20	20	20	20	20	20	20	20
HG3576-HT3778	"Autophagy", Antigen, Thyroid Disease-Related Antigen	20	20	20	20	20	20	20	20	20	20
HG3578-HT3781	Homeotic Protein 7, Notoch Group	20	20	20	20	20	20	20	20	20	20
HG3584-HT3784	Major Histocompatibility Complex, Class I (G5 X12432)	20	20	20	20	20	20	20	20	20	20
HG3597-HT3800	Calcium "Channel", Voltage Gated, Beta 1 "Subunit", L Type, Alt. Splice 2, Skeletal Muscle Isoform	20	20	20	20	20	20	20	20	20	20
HG36-HT4101	Epidermal Growth Factor Receptor-Related Protein	20	20	20	20	20	20	20	20	20	20
HG36-HT3836	Zinc Finger Protein, Knopp-Like	20	20	20	20	20	20	20	20	20	20
HG36-HT3845	"Myosin", Heavy Polypeptide 3, Non-Muscle	20	20	20	20	20	20	20	20	20	20
HG36-HT3846	Amphid Beta (A1) Precursor Protein, Alt. Splice 2, A4(751)	20	20	20	20	20	20	20	20	20	20
HG36-HT3893	Amphid Beta (A1) Precursor Protein, Alt. Splice 4	20	20	20	20	20	20	20	20	20	20
HG37-HT37	Usp-Glucuronosyltransferase 1 "Family", Polypeptide 1, Alt. Splice 1	20	20	20	20	20	20	20	20	20	20
HG3703-HT3915	Guanine Nucleotide-Binding Protein, Alpha Inhibitory Activity Polypeptide 2	20	20	20	20	20	20	20	20	20	20
HG3707-HT3922	Mucin 1, "Epithelial", Alt. Splice 6	20	20	20	20	20	20	20	20	20	20
HG3711-HT3931	Mucin 1, "Epithelial", Alt. Splice 8	20	20	20	20	20	20	20	20	20	20
HG3711-HT3938	Mucin 1, "Epithelial", Alt. Splice 9	20	20	20	20	20	20	20	20	20	20
HG3711-HT3938	Insulin-Like Leydig Hormone	20	20	20	20	20	20	20	20	20	20
HG3711-HT3938	Homeotic Protein Hox-5	20	20	20	20	20	20	20	20	20	20
HG3725-HT3981	Tyrosine Kinase 5A	20	20	20	20	20	20	20	20	20	20
HG3728-HT3996	Immunoglobulin Heavy "Chain", V $\alpha$ Region (G5 L23566)	20	20	20	20	20	20	20	20	20	20
HG3730-HT4000	Immunoglobulin Heavy "Chain", V $\alpha$ Region (G5 L23566)	20	20	20	20	20	20	20	20	20	20
HG3731-HT4001	Epithelial, Alpha 3	20	20	20	20	20	20	20	20	20	20
HG3733-HT4003	Basic Transcription Factor "2", 34 Kda Subunit	20	20	20	20	20	20	20	20	20	20
HG3740-HT4010	Basic Transcription Factor "4", 44 Kda Subunit	20	20	20	20	20	20	20	20	20	20
HG3748-HT4018	Immunoglobulin Heavy "Chain", Fd Fragment	20	20	20	20	20	20	20	20	20	20
HG3790-HT4060	Ribosomal Protein L26	20	20	20	20	20	20	20	20	20	20
HG3843-HT384	Myo-48 Antigen	20	20	20	20	20	20	20	20	20	20
HG3859-HT4120	Immunoglobulin Gamma Heavy "Chain", V(D)J Regions (G5 U13200)	20	20	20	20	20	20	20	20	20	20
HG3972-HT4142	Homeotic Protein Hox-42	20	20	20	20	20	20	20	20	20	20
HG3984-HT4154	Phosphoglucosylase 1, Alt. Splice	20	20	20	20	20	20	20	20	20	20
HG3985-HT4163	Sodium "Channel", Type III, Alpha "Subunit", Brain	20	20	20	20	20	20	20	20	20	20
HG3987-HT4187	Cell Division Cycle Protein 2-Related Protein Kinase (Plastic)	20	20	20	20	20	20	20	20	20	20
HG3914-HT4184	Homeotic Protein "A1", Class 1, Alt. Splice 1	20	20	20	20	20	20	20	20	20	20
HG3920-HT4521	Homeotic Protein "A1", Class 1, Alt. Splice 1	20	20	20	20	20	20	20	20	20	20

Accession	Gene	Protein	Length	Weight	PI	Inst	Ref
U00001	18S ribosomal RNA	18S ribosomal RNA	186	19.5	5.3	1	1
U00002	28S ribosomal RNA	28S ribosomal RNA	2321	34.0	5.0	1	1
U00003	5S ribosomal RNA	5S ribosomal RNA	120	16.0	4.8	1	1
U00004	5.8S ribosomal RNA	5.8S ribosomal RNA	161	21.0	4.9	1	1
U00005	16S ribosomal RNA	16S ribosomal RNA	1542	19.5	5.0	1	1
U00006	23S ribosomal RNA	23S ribosomal RNA	2344	34.0	5.0	1	1
U00007	16S ribosomal RNA	16S ribosomal RNA	1542	19.5	5.0	1	1
U00008	23S ribosomal RNA	23S ribosomal RNA	2344	34.0	5.0	1	1
U00009	16S ribosomal RNA	16S ribosomal RNA	1542	19.5	5.0	1	1
U00010	23S ribosomal RNA	23S ribosomal RNA	2344	34.0	5.0	1	1
U00011	16S ribosomal RNA	16S ribosomal RNA	1542	19.5	5.0	1	1
U00012	23S ribosomal RNA	23S ribosomal RNA	2344	34.0	5.0	1	1
U00013	16S ribosomal RNA	16S ribosomal RNA	1542	19.5	5.0	1	1
U00014	23S ribosomal RNA	23S ribosomal RNA	2344	34.0	5.0	1	1
U00015	16S ribosomal RNA	16S ribosomal RNA	1542	19.5	5.0	1	1
U00016	23S ribosomal RNA	23S ribosomal RNA	2344	34.0	5.0	1	1
U00017	16S ribosomal RNA	16S ribosomal RNA	1542	19.5	5.0	1	1
U00018	23S ribosomal RNA	23S ribosomal RNA	2344	34.0	5.0	1	1
U00019	16S ribosomal RNA	16S ribosomal RNA	1542	19.5	5.0	1	1
U00020	23S ribosomal RNA	23S ribosomal RNA	2344	34.0	5.0	1	1
U00021	16S ribosomal RNA	16S ribosomal RNA	1542	19.5	5.0	1	1
U00022	23S ribosomal RNA	23S ribosomal RNA	2344	34.0	5.0	1	1
U00023	16S ribosomal RNA	16S ribosomal RNA	1542	19.5	5.0	1	1
U00024	23S ribosomal RNA	23S ribosomal RNA	2344	34.0	5.0	1	1
U00025	16S ribosomal RNA	16S ribosomal RNA	1542	19.5	5.0	1	1
U00026	23S ribosomal RNA	23S ribosomal RNA	2344	34.0	5.0	1	1
U00027	16S ribosomal RNA	16S ribosomal RNA	1542	19.5	5.0	1	1
U00028	23S ribosomal RNA	23S ribosomal RNA	2344	34.0	5.0	1	1
U00029	16S ribosomal RNA	16S ribosomal RNA	1542	19.5	5.0	1	1
U00030	23S ribosomal RNA	23S ribosomal RNA	2344	34.0	5.0	1	1
U00031	16S ribosomal RNA	16S ribosomal RNA	1542	19.5	5.0	1	1
U00032	23S ribosomal RNA	23S ribosomal RNA	2344	34.0	5.0	1	1
U00033	16S ribosomal RNA	16S ribosomal RNA	1542	19.5	5.0	1	1
U00034	23S ribosomal RNA	23S ribosomal RNA	2344	34.0	5.0	1	1
U00035	16S ribosomal RNA	16S ribosomal RNA	1542	19.5	5.0	1	1
U00036	23S ribosomal RNA	23S ribosomal RNA	2344	34.0	5.0	1	1
U00037	16S ribosomal RNA	16S ribosomal RNA	1542	19.5	5.0	1	1
U00038	23S ribosomal RNA	23S ribosomal RNA	2344	34.0	5.0	1	1
U00039	16S ribosomal RNA	16S ribosomal RNA	1542	19.5	5.0	1	1
U00040	23S ribosomal RNA	23S ribosomal RNA	2344	34.0	5.0	1	1
U00041	16S ribosomal RNA	16S ribosomal RNA	1542	19.5	5.0	1	1
U00042	23S ribosomal RNA	23S ribosomal RNA	2344	34.0	5.0	1	1
U00043	16S ribosomal RNA	16S ribosomal RNA	1542	19.5	5.0	1	1
U00044	23S ribosomal RNA	23S ribosomal RNA	2344	34.0	5.0	1	1
U00045	16S ribosomal RNA	16S ribosomal RNA	1542	19.5	5.0	1	1
U00046	23S ribosomal RNA	23S ribosomal RNA	2344	34.0	5.0	1	1
U00047	16S ribosomal RNA	16S ribosomal RNA	1542	19.5	5		

Expressed RNA in Suburothelial connective tissue, Normal urothelium and Transitional cell carcinomas									
Forward Family Axi	20	20	20	20	20	20	20	20	20
HC4245-HT4315 at	20	20	20	20	20	20	20	20	20
Kinase Inhibitor "P21up1," Cyclin-Dependent	20	20	20	20	20	20	20	20	20
NicP1a Protein	20	20	20	20	20	20	20	20	20
Guanine Nucleotide-Binding Protein RasGc-Like Protein	146	530	680	477	522	349	522	349	522
Hepaticocyte Growth Factor Receptor	177	177	177	177	177	177	177	177	177
B-Cell Growth Factor	147	170	134	127	65	117	65	117	65
Transcriptional Corepressor P4	149	220	290	227	179	216	179	216	179
Cellular Retinol Binding Protein II	20	20	20	20	20	20	20	20	20
Transcription Factor Ila	100	148	127	125	530	101	125	530	101
Transcription Factor Lim1	1860	1748	2300	2102	712	1043	2102	712	1043
Lin-Domain Transcription Factor Lim1	40	20	20	48	20	24	48	20	24
Ribosomal Protein L5	85	61	20	115	278	275	115	278	275
AnkR-Related Sequence	86	128	181	42	94	26	42	94	26
Tubulin, Beta	20	20	20	20	20	20	20	20	20
Zinc Finger Protein Zfp1	20	20	20	20	20	20	20	20	20
Zinc Finger Protein Zfp7	20	20	20	20	20	20	20	20	20
Glycoprotein	45	120	78	104	69	89	104	69	89
Bactericidal Dp1 Gene	20	20	20	20	20	20	20	20	20
Sosa	20	20	20	20	20	20	20	20	20
Ribosomal Protein L18a Homolog	20	20	20	20	20	20	20	20	20
Mucin, Gastric	20	20	20	20	20	20	20	20	20
Homeotic Protein Hpa-2	20	20	20	20	20	20	20	20	20
Cytin D1 Promoter	20	20	20	20	20	20	20	20	20
Immunoglobulin Heavy "Chain," VJc Region (Gb L21553)	20	20	20	20	20	20	20	20	20
Immunoglobulin Heavy "Chain," VJc Region (Gb L23564)	20	20	20	20	20	20	20	20	20
Immunoglobulin Heavy "Chain," VJc Region (Gb L23565)	20	20	20	20	20	20	20	20	20
Collagen, Type "VI," Alpha "2," N-Terminal Domain	20	20	20	20	20	20	20	20	20
Proline-Rich Protein "Pro4," Allele	20	20	20	20	20	20	20	20	20
Immunoglobulin Recombination Signal Sequence Binding Protein, Alt, Splice 3	20	20	20	20	20	20	20	20	20
Transcription Factor B10 Homolog (Gb M90355)	20	20	20	20	20	20	20	20	20
Transcription Factor B10 Homolog (Gb M90355)	20	20	20	20	20	20	20	20	20
Transcription Factor B10 Homolog (Gb M90355)	20	20	20	20	20	20	20	20	20
Kallistatin, Protease Inhibitor 4	191	259	364	221	608	140	221	608	140
Domain	159	197	479	391	250	252	391	250	252
Transformion-Related Protein	1378	1500	2381	2133	549	1098	2133	549	1098
Ribosomal Protein L10	20	20	20	20	20	20	20	20	20
Small Nuclear Ribonucleoprotein "U1," Temp	56	114	156	65	84	20	65	84	20
Beta-1-Glycoprotein "1," Pregnancy-Specific (Gb M20882)	20	20	20	20	20	20	20	20	20
Glucocorticoid Receptor, Beta	20	20	20	20	20	20	20	20	20
Sodium Channel 1	20	20	20	20	20	20	20	20	20
Conradin, Alpha	20	20	20	20	20	20	20	20	20
Spliceosomal Protein Snp 40	20	20	20	20	20	20	20	20	20
Myosin-Associated Protein 1b	20	20	20	20	20	20	20	20	20
Oncogene "RetP1c2," Fusion Activated	20	20	20	20	20	20	20	20	20
Oncogene "RetP1c2," Fusion Activated	20	20	20	20	20	20	20	20	20
Oncogene "RetP1c2," Fusion Activated	20	20	20	20	20	20	20	20	20
Tumor Necrosis Factor Receptor 2 Associated Protein Trap3	20	20	20	20	20	20	20	20	20
Gli3 Growth Factor 2	20	20	20	20	20	20	20	20	20
Guanine 5'-Monophosphate Synthase	20	20	20	20	20	20	20	20	20
Alp-Binding Cassette Protein	20	20	20	20	20	20	20	20	20
Transcription Factor Eb	20	20	20	20	20	20	20	20	20
NADH-Ubiquinone "Oxidoreductase," 51 Kda Subunit	20	20	20	20	20	20	20	20	20
Calmodulin-Calcium-Binding "Protein," Mitochondrial	20	20	20	20	20	20	20	20	20
Skeletal Muscular Atrophy 4	20	20	20	20	20	20	20	20	20
Oncogene "Mia-A4," Fusion Activated	20	20	20	20	20	20	20	20	20
Fc Receptor Ibb For "Ibb," Low Affinity	20	20	20	20	20	20	20	20	20
Ras Inhibitor Irf	20	20	20	20	20	20	20	20	20
Collagen, Type "VII," Alpha 2	20	20	20	20	20	20	20	20	20
Endothelial Cell Growth Factor 1	20	20	20	20	20	20	20	20	20
Ribosomal Protein S12	20	20	20	20	20	20	20	20	20
Tyrosine Phosphatase, Epsilon	20	20	20	20	20	20	20	20	20
Rhesus (Rh) Blood Group System "Ce-Antigen," Alt, Splice "2," Rhv1	20	20	20	20	20	20	20	20	20
Rhesus (Rh) Blood Group System "Ce-Antigen," Alt, Splice "3," Rhv1	20	20	20	20	20	20	20	20	20
Histone H1.1	20	20	20	20	20	20	20	20	20
Adducin, Alpha "Subunit," Alt, Splice 2	20	20	20	20	20	20	20	20	20
HC4245-HT4315 at	136	69	121	158	151	135	158	151	135

Expressed RNA in Subcutaneous Connective Tissue, Normal Urothelium and Transitional Cell Carcinomas																																																																																																																																																																										
Accession	Alpha Subunit, Alt. Splice 3	Major Histocompatibility Complex, Class I, C (Gp.X54536)	Major Histocompatibility Complex, Class II, D, Beta 2 (Gp.X65561)	Major Histocompatibility Complex, Class II, D, Beta 2 (Gp.X65561)	Major Histocompatibility Complex, Class II, D, Beta 2 (Gp.X65561)	Major Histocompatibility Complex, Class II, D, Beta 2 (Gp.X65561)	Major Histocompatibility Complex, Class II, D, Beta 2 (Gp.X65561)	Major Histocompatibility Complex, Class II, D, Beta 2 (Gp.X65561)	Major Histocompatibility Complex, Class II, D, Beta 2 (Gp.X65561)	Major Histocompatibility Complex, Class II, D, Beta 2 (Gp.X65561)	Major Histocompatibility Complex, Class II, D, Beta 2 (Gp.X65561)	Major Histocompatibility Complex, Class II, D, Beta 2 (Gp.X65561)	Major Histocompatibility Complex, Class II, D, Beta 2 (Gp.X65561)	Major Histocompatibility Complex, Class II, D, Beta 2 (Gp.X65561)	Major Histocompatibility Complex, Class II, D, Beta 2 (Gp.X65561)	Major Histocompatibility Complex, Class II, D, Beta 2 (Gp.X65561)	Major 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Expressed RNA in Subcutaneous Connective Tissue, Normal Urothelium and Transitional Cell Carcinomas					
J07854 .at	Human 20-kDa myosin light chain (MLC-2) "mRNA," complete cds	412	522	20	141
J02874 .at	Human lung cytochrome P-450 (IV subfamily) B1 "protein," complete cds	20	319	410	687
J02876 .at	Human adipocyte lipid-binding protein, complete cds	469	287	425	558
J02883 .at	Human pleonectin [also binding protein] "mRNA," complete cds	20	33	20	110
J02888 .at	Human collagenase "mRNA," complete cds	60	131	121	173
J02889 .at	Human quinine oxidoreductase (NQO2) "mRNA," complete cds	391	155	202	379
J07902 .at	Human proline phosphatase 2A regulatory subunit alpha-isotype (alpha-PRES) "mRNA," complete cds	109	20	32	451
J07905 .at	Human cytochrome P-450IPI1 protein (CYP2F) "mRNA," complete cds	20	66	20	88
J02923 .at	Human G5 Ubiquitin phosphoprotein (pG5) "mRNA," complete cds	20	36	20	45
J02943 .at	Human corticosteroid binding globulin "mRNA," complete cds	117	52	24	282
J07947 .at	Human estradiol superoxide dismutase (SOD3) "mRNA," complete cds	45	20	20	541
J07960 .cds1	unknown protein gene extracted from Human beta-2-adrenergic receptor "gene," complete cds	20	20	20	232
J07963 .at	Human platelet glycoprotein IIb "mRNA," 3' end	20	20	20	84
J02973 .ma1	Human thrombospondin gene, complete cds	24	20	20	81
J02982 .at	Human glycoprotein B "mRNA," complete cds	30	34	20	53
J02986 .cds1	Human transforming protein (hs) gene, complete cds	30	20	31	47
J03027 .at	Human MHC class I HLA-B*09 "gene," complete cds	30	20	42	37
J03040 .at	Human SPARC/Casproneurin "mRNA," complete cds	393	64	20	138
J03060 .at	Human glucocorticoidase (GCBE) "gene," complete cds	57	20	20	20
J03080 .ma1	Human MYCL3 gene, complete cds	204	230	297	272
J03071 .cds3	Chronic somatomedinotropin CS-1 gene extracted from Human growth hormone (GH-1 and GH-2) and chorionic somatomemotropin	510	925	1569	1188
J03133 .at	Human co-beta glucosidase (prolyser) "mRNA," complete cds	20	22	20	136
J03161 .at	Human transcription factor Sp1 "mRNA," 3' end	96	53	29	108
J03171 .at	Human serum response factor (SRF) "mRNA," complete cds	799	668	760	597
J03191 .at	Human interferon-alpha receptor (HuIFN-alpha-R) "mRNA," complete cds	117	172	415	390
J03224 .at	Human profilin "mRNA," complete cds	60	11	20	172
J03241 .at	Human insulin-like growth factor II "mRNA," complete cds	20	20	20	20
J03256 .at	Human vitamin D receptor "mRNA," complete cds	20	20	20	20
J03263 .at	Human transducin alpha-subunit (GNAZ) "mRNA," complete cds	20	20	20	20
J03278 .at	Human lysosome-associated membrane glycoprotein (lamp A) "mRNA," complete cds	22	20	20	20
J03439 .at	Human plasminogen activator inhibitor-1 "gene," exons 2 to 9	381	254	287	327
J03474 .at	Human leukotriene A-4 hydrolase "mRNA," complete cds	78	42	82	71
J03502 .at	Human poly(ADP-ribose) synthetase "mRNA," complete cds	20	20	20	20
J03589 .at	Human complement protein component C7 "mRNA," complete cds	20	36	20	20
J03592 .at	Human ubiquitin-like protein (GUX) "gene," complete cds	28	20	20	20
J03600 .at	Human ADPATP transferase "mRNA," 3' end; clone p1AT8	905	1140	1598	683
J03626 .ma1	Human lipoygerate "mRNA," complete cds	20	255	233	220
J03634 .at	UMP5 gene extracted from Human UMP synthase "mRNA," complete cds	24	20	20	155
J03675 .at	Human erythroid differentiation protein mRNA (EDP), complete cds	98	131	20	146
J03678 .at	Human growth hormone variant (GHV1) and growth hormone variant-2 (GH2) "mRNA," complete cds	165	49	39	120
J03776 .at	Human plasminogen activator inhibitor-1 "gene," exons 2 to 9	20	20	20	20
J03779 .at	Human microtubule-associated protein tau "mRNA," complete cds	110	185	164	139
J03796 .at	Human common acute lymphoblastic leukemia antigen (CALLA) "mRNA," complete cds	32	35	33	60
J03801 .at	Human actinonin small nuclear ribonucleoprotein Sm-D "mRNA," complete cds	557	1137	321	623
J03810 .at	Human phosphatase 2A "mRNA," partial cds	206	202	245	37
J03824 .at	Human liver glucose transporter-like protein (GLUT2), complete cds	20	32	20	20
J03827 .at	Human uroporphyrinogen III synthase "mRNA," complete cds	1439	694	1147	1262
J03900 .ma1	Y box binding protein 1 (YB-1) "mRNA"	20	20	20	20
J03909 .at	Human pulmonary surfactant protein C (SP-C) and pulmonary surfactant protein C1 (SP-C1) genes, complete cds	248	211	38	80
J03910 .ma1	Human Guanine nucleotide-reducible protein (p-30) "mRNA," complete cds	20	20	20	135
J03915 .at	Human (clone 14V5) methallophorin-G (MT/G) "gene," complete cds	20	20	20	20
J03925 .at	Human oncogene A "mRNA," complete cds	20	20	20	200
J03930 .at	Human hsc-1 gene encoding complement receptor type 3, "CD11b," complete cds	111	20	20	60
J03934 .at	Human intestinal alkaline phosphatase (ALPH) "gene," complete cds	20	153	154	20
J04027 .at	"Human," NAD(P)+-dependent oxidoreductase "mRNA," complete cds	21	21	121	89
J04079 .at	Human plasma kallikrein Cal+ pumping ATPase "mRNA," complete cds	20	45	103	189
J04083 .at	Homo sapiens keratin 10 type I intermediate filament (KRT10) "mRNA," complete cds	145	146	146	20
J04040 .at	Human methyltetrahydrofolate dehydrogenase-methyltetrahydrofolate cyclohydrolase synthetase "mRNA,"	20	20	48	37
J04046 .at	Human glucagon "				

Expressed RNA in Subepithelial connective tissue, Normal urothelium and Transitional cell carcinomas											
		407	225	20	22	20	20	20	20	20	43
J04080	at	Human complement component C11 "mRNA", complete cds	50	33	63	48	137	48	143	91	143
J04086	at	Human DNA topoisomerase II (top2) "mRNA", complete cds	72	265	801	137	48	143	91	143	143
J04093	at	Human septin phenol UDP-glucosyltransferase (UGT1G1) "mRNA", complete cds	20	20	20	20	20	20	20	20	20
J04101	at	Human erythroblastosis virus oncogene homolog 1 (ets-1) "mRNA", complete cds	24	20	20	20	20	20	20	20	20
J04102	at	Human erythroblastosis virus oncogene homolog 2 (ets-2) "mRNA", complete cds	24	20	20	20	20	20	20	20	20
J04111	at	Human c-jun proto oncogene "cjun", complete cds, clone NCJ-1	21	110	20	20	20	20	20	20	195
J04130	at	Human activation (Ad-2) "mRNA", complete cds	21	47	20	20	20	20	20	20	88
J04132	at	Human T cell receptor zeta-chain "mRNA", complete cds	1311	1251	2561	835	758	758	758	758	758
J04152	ma1_s	M151 gene extracted from Human gastrointestinal tumor-associated antigen GAT335-1 protein "gene", complete cds, clone 5519	54	89	2743	20	69	20	20	20	20
J04156	at	Human interleukin 7 (IL-7) "mRNA", complete cds	37	1168	45	902	111	825	825	111	111
J04162	at	Human leukocyte IgG receptor (Fc-gamma-R) "mRNA", complete cds	590	30	94	902	825	825	825	825	825
J04164	at	Human interferon-inducible protein 27-Sep "mRNA", complete cds	20	20	20	20	20	20	20	20	20
J04168	at	Human leukotaxin "mRNA", complete cds	546	297	307	512	278	207	207	207	207
J04173	at	Human septin phenol UDP-glucosyltransferase (UGT1G1) "mRNA", complete cds	20	20	20	20	20	20	20	20	20
J04177	at	Human alpha-1 type XI collagen (COL11A1) "mRNA", complete cds	157	370	418	257	145	271	271	271	271
J04182	at	Human septin phenol UDP-glucosyltransferase (UGT1G1) "mRNA", complete cds	20	20	20	20	20	20	20	20	20
J04190	at	Human keratin-associated acid phosphatase type 3 "mRNA", complete cds	20	20	20	20	20	20	20	20	20
J04430	at	Human cytochrome c-1 "gene", complete cds	20	20	20	20	20	20	20	20	20
J04444	at	Human 14 kd lectin "mRNA", complete cds	549	413	144	20	20	20	20	20	20
J04449	at	Human mitochondrial creatine kinase (CKMT) "gene", complete cds	62	61	78	269	92	488	488	92	488
J04465	at	Human muscle glycogen synthase "mRNA", complete cds	73	70	68	20	20	20	20	20	20
J04501	at	Human basic fibroblast growth factor (bFGF) 22.5 "td", 21 kb and 18 kb protein "mRNA", complete cds	20	20	20	20	20	20	20	20	20
J04513	at	Human synapt "mRNA", complete cds	86	44	55	20	20	20	20	20	20
J04543	at	Human synapt "mRNA", complete cds	67	171	238	436	519	519	519	519	519
J04599	at	Human HPGI mRNA encoding bone sialoprotein (BSP) "mRNA", complete cds	117	24	85	189	239	239	239	239	239
J04611	at	Human prolidase (imido-peptidase) "mRNA", complete cds	295	279	375	20	20	20	20	20	20
J04615	at	Human lupus autoantigen (small nuclear ribonucleoprotein, "snRNP", "SM-D") "mRNA", complete cds	108	121	142	20	20	20	20	20	20
J04617	at	Human elongation factor EF-1-alpha "gene", complete cds	4935	6479	8978	1707	3338	3338	3338	3338	3338
J04621	at	Human heparan sulfate proteoglycan (HSPG) core "protein", 3' end	20	20	20	20	20	20	20	20	20
J04631	at	Human bactericidal permeability increasing protein (BPI) "mRNA", complete cds	20	20	20	20	20	20	20	20	20
J04739	at	Human adenovirus replicating sequence 41 (RBSH1)	20	20	20	20	20	20	20	20	20
J04742	at	Human non-tyrosine kinase protein (TNK1) "mRNA", complete cds	20	20	20	20	20	20	20	20	20
J04760	at	Human adenosine deaminase "mRNA", complete cds	228	271	167	259	240	466	466	259	240
J04764	at	Human adenosine deaminase "mRNA", complete cds	154	70	143	20	20	20	20	20	20
J04805	ma1_s	Human cytosolic adenylate kinase (AK1) "gene", complete cds	559	52	53	615	649	464	464	615	649
J04810	s	Human cytochrome c oxidase subunit VIII (COX8) "mRNA", complete cds	57	20	20	20	20	20	20	20	20
J04823	ma1_s	Human alkaline phosphatase (ALP-1) "mRNA", complete cds	20	20	20	20	20	20	20	20	20
J04946	at	Human carboxypeptidase "M", 3' end	154	67	131	20	20	20	20	20	20
J04970	at	Human cytochrome bc-1 complex core protein II "mRNA", complete cds	20	20	20	20	20	20	20	20	20
J04973	at	Human heart lateral muscle ATP/ADP translocator (ANT1) "gene", complete cds	527	578	1441	431	819	819	819	431	819
J04982	at	Human 90 kD heat shock protein "gene", complete cds	112	86	94	76	147	147	147	76	147
J04989	at	Human cathelin G "gene", complete cds	20	20	20	20	20	20	20	20	20
J04990	at	Human cathelin G "gene", complete cds	20	20	20	20	20	20	20	20	20
J05008	at	Human alpha-1 (EDN1) "gene", complete cds	64	44	59	100	85	40	40	85	40
J05016	ma1_s	Human alpha-1 (EDN1) "gene", complete cds	20	24	689	1145	88	24	24	88	24
J05032	at	Human alpha-1 (EDN1) "gene", complete cds	20	20	20	20	20	20	20	20	20
J05033	at	Human alpha-1 (EDN1) "gene", complete cds	20	20	20	20	20	20	20	20	20
J05037	at	Human alpha-1 (EDN1) "gene", complete cds	20	20	20	20	20	20	20	20	20
J05048	at	Human alpha-1 (EDN1) "gene", complete cds	20	20	20	20	20	20	20	20	20
J05070	at	Human alpha-1 (EDN1) "gene", complete cds	20	20	20	20	20	20	20	20	20
J05073	at	Human alpha-1 (EDN1) "gene", complete cds	20	20	20	20	20	20	20	20	20
J05090	ma1_s	Human alpha-1 (EDN1) "gene", complete cds	27	32	20	20	20	20	20	20	20
J05125	at	Human alpha-1 (EDN1) "gene", complete cds	20	20	20	20	20	20	20	20	20
J05158	at	Human alpha-1 (EDN1) "gene", complete cds	20	20	20	20	20	20	20	20	20
J05200	ma1_s	Human alpha-1 (EDN1) "gene", complete cds	20	20	20	20	20	20	20	20	20
J05213	at	Human alpha-1 (EDN1) "gene", complete cds	20	20	20	20	20	20	20	20	20
J05243	at	Human alpha-1 (EDN1) "gene", complete cds	20	20	20	20	20	20	20	20	20
J05249	at	Human alpha-1 (EDN1) "gene", complete cds	20	20	20	20	20	20	20	20	20
J05252	s	Human alpha-1 (EDN1) "gene", complete cds	20	20	20	20	20	20	20	20	20
J05253	s	Human alpha-1 (EDN1) "gene", complete cds	20	20	20	20	20	20	20	20	20
J05257	at	Human alpha-1 (EDN1) "gene", complete cds	20	20	20	20	20	20	20	20	20
J05301	at	Human alpha-1 (EDN1) "gene", complete cds	154	108	162	344	244	244	244	108	162
J05412	at	Human alpha-1 (EDN1) "gene", complete cds	57	50	95	51	236	236	236	51	236
J05428	at	Human alpha-1 (EDN1) "gene", complete cds	20	20	20	20	20	20	20	20	20
J05446	at	Human alpha-1 (EDN1) "gene", complete cds	20	20	20	20	20	20	20	20	20
J05459	at	Human alpha-1 (EDN1) "gene", complete cds	20	20	20	20	20	20	20	20	20

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Expressed RNA in Subcutaneous Connective Tissue, Normal Uterus and Transitional Cell Carcinomas

Human beta-spectrin (SPTB) "mRNA", complete cds	J05503.at	116	88	93	110	104
Homo sapiens collagenase "mRNA", complete cds	J05506.at	170	20	20	20	20
J05542.s.at	J05542.s.at	283	68	68	283	20
Human proliferating cell nuclear antigen (PCNA) "gene"; promoter region /gb_J05614.mtype=DNA /amoi=mRNA	J05614.at	312	20	312	312	20
Human integrin beta-5 subunit "mRNA", complete cds	J05603.at	41	41	41	25	23
Human class II histocompatibility antigen DC-alpha chain mRNA	J05692.at	37	36	36	32	32
Human metalloproteinase-1A "gene", complete coding sequence	K01160.at	56	45	56	56	56
Human alpha-1-antitrypsin "mRNA", complete cds	K01183.at	121	103	103	121	121
Human Bim-1 transmembrane "gene", complete coding region	K01196.at	20	20	20	20	20
Human lymphocyte interferon alpha type 201 "mRNA", complete cds	K01198.at	75	22	20	75	20
Human myeloperoxidase Y (NPY) "mRNA", complete cds	K01199.at	22	20	20	20	20
Human gamma-interferon releasing peptide "mRNA", complete cds	K02054.at	78	20	20	20	20
Human endothelial nitric oxide synthase (ECNOS) "complete coding sequence"	K02055.at	20	20	20	20	20
Human angiotensinogen "mRNA", complete cds	K02056.at	143	20	20	20	20
Human endoplasmic reticulum protein 58 kDa "mRNA", complete cds	K02057.at	20	20	20	20	20
Human complement factor IX "gene", complete cds	K02058.at	20	20	20	20	20
Human HLA-DQ-beta gene [HQA-DQ-beta] (DQB1)*	K02059.at	39	20	20	20	20
Human T-cell receptor gamma beta-chain J-beta-1; J-beta-1.2 genes; and D-beta-1.1 gene.	K02060.at	138	134	140	138	138
Human purine nucleoside phosphorylase (PNP) "mRNA", complete cds	K02061.at	540	20	20	540	20
Human complement component C3 "mRNA", alpha and beta subunits, complete cds	K02062.at	37	20	20	20	20
Human complement component C5 "mRNA", complete cds	K02063.at	20	20	20	20	20
Human T-cell receptor active alpha-chain mRNA from Jurkat cell line	K02064.at	26	20	20	26	20
IGHD gene (immunoglobulin delta-chain) extracted from Human germ-line IgD chain "gene", "C-region", "C-deletions domain	K02065.at	82	20	20	82	20
Human gamma-E crystallin pseudogene (gamma-G2-pst), exon 3	K02066.at	99	20	20	99	20
Human gamma-E crystallin pseudogene (gamma-G2-pst), exon 3	K02067.at	143	20	20	143	20
Human tissue plasminogen activator (PLAT) "gene", complete cds	K02068.at	20	20	20	20	20
Human chorionic gonadotropin beta subunit gene	K02069.at	182	20	20	182	20
Human (Hsp23) glucose transporter gene "mRNA", complete cds	K02070.at	114	20	20	114	20
Human PRB1 locus salivary proline-rich protein "mRNA", clone "CP3", complete cds	K02071.at	160	451	520	160	20
Human PRB1 locus salivary proline-rich protein "mRNA", complete cds	K02072.at	20	20	20	20	20
Human c-src-1 proto-oncogene	K02073.at	166	20	20	166	20
Human complement C1q B-chain gene	K02074.at	212	20	20	212	20
NPR gene (natriuretic-related protein) extracted from Human heptoglobin gene (alpha 2 allele)	K02075.at	163	188	318	163	20
Human alpha-tubulin isoform K2-alpha "gene", last exon	K02076.at	632	359	659	632	20
Human Mutations inhibiting substance "gene", complete cds	K02077.at	20	20	20	20	20
Human green cone photoreceptor pigment gene 1	K02078.at	97	124	266	97	20
pai protein from Human endogenous retrovirus HERV-K22 psi and envelope ORF region /gb_K02498.mtype=DNA /amoi=CDS	K02079.at	88	336	311	88	20
Human leucine aminopeptidase 1 "UT"-V.D.-I region subgroup "MHI"-1 gene	K02080.at	21	24	24	21	20
Human (GH) germline c-myc "proto-oncogene", 5 flant	K02081.at	127	59	59	127	20
Human growth hormone-releasing factor (GRF) "gene", exon 5	K02082.at	154	20	20	154	20
Human Kbb (epidermal "keratin", type II) gene	K02083.at	169	51	51	169	20
Human low density lipoprotein receptor gene	K02084.at	20	20	20	20	20
Human cholesteryl ester transfer protein (CETP) gene	K02085.at	78	31	31	78	20
Human cyclophilin P-450 gene	K02086.at	60	71	71	60	20
Human lens alpha-crystallin transmembrane alpha-subunit "mRNA", complete cds	K02087.at	55	93	93	55	20
Human lens gamma-crystallin transmembrane beta-subunit "mRNA", complete cds	K02088.at	66	20	20	66	20
Human cytochrome b5-youth (CBS) mRNA	K02089.at	20	20	20	20	20
Human HIV-1 tat intracellular regulatory factor "mRNA", complete cds	K02090.at	20	20	20	20	20
Human protein kinase C-beta (PKC-Beta) "mRNA", complete cds	K02091.at	20	20	20	20	20
Human growth hormone-releasing hormone receptor "mRNA", complete cds	K02092.at	20	20	20	20	20
Human poliovirus Charcot-Leyden crystal (CLC) protein (lysophosphatase) "mRNA", complete cds	K02093.at	20	20	20	20	20
Human radian "mRNA", complete cds	K02094.at	20	20	20	20	20
Human glutathione S-transferase (GSTMS) "mRNA", complete cds	K02095.at	20	20	20	20	20
Homo sapiens (clone Hs) keratin-17 keratin-like "gene", complete cds	K02096.at	20	20	20	20	20
Human 26S protease (S4) regulatory subunit "mRNA", complete cds	K02097.at	20	20	20	20	20
Homo sapiens (clone pL50-19) decapeptide stimulation factor 50Da "subunit", complete cds	K02098.at	20	20	20	20	20
Homo sapiens (clone V6) transcobalamin II (TCN2) "mRNA", complete cds	K02099.at	20	20	20	20	20
Homo sapiens colon mucosa-associated (DRA) "mRNA", complete cds	K02100.at	20	20	20	20	20
Homo sapiens potassium channel KV2.1 "mRNA", complete cds	K02101.at	20	20	20	20	20
Homo sapiens 62 kDa paraneoplastic antigen "mRNA", 3' end	K02102.at	20	20	20	20	20
Human peroxisome proliferator activated receptor "mRNA", complete cds	K02103.at	20	20	20	20	20
Human mu-crystallin "mRNA", complete cds	K02104.at	20	20	20	20	20

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Expressed RNA in Subepithelial connective tissue, Normal endometrium and Transitional cell carcinomas

L11566_c1	Human septin 1 (septin) protein L18 (RPL18) "mRNA", complete cds	1399	1195	2489	2170	522	1172
L11573_c1	Human surfactant protein B "mRNA", complete cds (sp-B-L1573) myp-rna					20	20
L11669_c1	Human tenascin-R transmembrane-like protein "mRNA", complete cds		138	308	212	28	186
L11672_c1	Human Kruppel related zinc finger protein (KRF10) "mRNA", complete cds	370	855	1513	1144	3690	1219
L11672_c2	Human Kruppel related zinc finger protein (KRF10) "mRNA", complete cds					125	168
L11695_c1	Human activator receptor-like kinase (ALK-5) "mRNA", complete cds	22	34	202	166	20	94
L11701_c1	Human phospholipase D "mRNA", complete cds	20	20	53	20	187	20
L11702_c1	Human phospholipase D "mRNA", complete cds	20	20	20	20	20	20
L11706_c1	Human 17 beta hydroxysteroid dehydrogenase type 2 "mRNA", complete cds	61	159	661	365	143	26
L11931_c1	Human cytosolic serine hydroxymethyltransferase (SHMT) "mRNA", complete cds	20	20	20	20	20	20
L12052_c1	Human cAMP phosphodiesterase "mRNA", 3' end	20	20	20	20	20	20
L12060_c1	Human septin retinoid acid receptor (gsmr-7) mRNA	20	20	20	20	20	20
L12166_c1	Human septins adenylate cyclase-associated protein (CAP) "mRNA", complete cds	390	445	323	273	278	132
L12350_c1	Human thrombospondin 2 (THBS2) "mRNA", complete cds	32	170	99	23	20	40
L12362_c1	Human septin Hurdington 1 Disease (HD) "mRNA", complete cds	148	148	188	162	187	153
L12468_c1	Human septins aminopeptidase A "mRNA", complete cds	50	20	21	20	20	20
L12535_c1	Human RSL11RSP-1 "mRNA", complete cds	69	88	117	63	165	23
L12711_c1	Human angiotensin protein (EN2) gene, 3' end	71	20	20	33	171	27
L12711_c2	Human angiotensin protein (EN2) gene, 3' end	569	181	534	1218	216	206
L12711_c3	Human angiotensin protein (EN2) gene, 3' end	101	74	142	142	20	132
L12711_c4	Human angiotensin protein (EN2) gene, 3' end	101	74	142	142	20	132
L12711_c5	Human angiotensin protein (EN2) gene, 3' end	101	74	142	142	20	132
L12711_c6	Human angiotensin protein (EN2) gene, 3' end	101	74	142	142	20	132
L12711_c7	Human angiotensin protein (EN2) gene, 3' end	101	74	142	142	20	132
L12711_c8	Human angiotensin protein (EN2) gene, 3' end	101	74	142	142	20	132
L12711_c9	Human angiotensin protein (EN2) gene, 3' end	101	74	142	142	20	132
L12711_c10	Human angiotensin protein (EN2) gene, 3' end	101	74	142	142	20	132
L12711_c11	Human angiotensin protein (EN2) gene, 3' end	101	74	142	142	20	132
L12711_c12	Human angiotensin protein (EN2) gene, 3' end	101	74	142	142	20	132
L12711_c13	Human angiotensin protein (EN2) gene, 3' end	101	74	142	142	20	132
L12711_c14	Human angiotensin protein (EN2) gene, 3' end	101	74	142	142	20	132
L12711_c15	Human angiotensin protein (EN2) gene, 3' end	101	74	142	142	20	132
L12711_c16	Human angiotensin protein (EN2) gene, 3' end	101	74	142	142	20	132
L12711_c17	Human angiotensin protein (EN2) gene, 3' end	101	74	142	142	20	132
L12711_c18	Human angiotensin protein (EN2) gene, 3' end	101	74	142	142	20	132
L12711_c19	Human angiotensin protein (EN2) gene, 3' end	101	74	142	142	20	132
L12711_c20	Human angiotensin protein (EN2) gene, 3' end	101	74	142	142	20	132
L12711_c21	Human angiotensin protein (EN2) gene, 3' end	101	74	142	142	20	132
L12711_c22	Human angiotensin protein (EN2) gene, 3' end	101	74	142	142	20	132
L12711_c23	Human angiotensin protein (EN2) gene, 3' end	101	74	142	142	20	132
L12711_c24	Human angiotensin protein (EN2) gene, 3' end	101	74	142	142	20	132
L12711_c25	Human angiotensin protein (EN2) gene, 3' end	101	74	142	142	20	132
L12711_c26	Human angiotensin protein (EN2) gene, 3' end	101	74	142	142	20	132
L12711_c27	Human angiotensin protein (EN2) gene, 3' end	101	74	142	142	20	132
L12711_c28	Human angiotensin protein (EN2) gene, 3' end	101	74	142	142	20	132
L12711_c29	Human angiotensin protein (EN2) gene, 3' end	101	74	142	142	20	132
L12711_c30	Human angiotensin protein (EN2) gene, 3' end	101	74	142	142	20	132
L12711_c31	Human angiotensin protein (EN2) gene, 3' end	101	74	142	142	20	132
L12711_c32	Human angiotensin protein (EN2) gene, 3' end	101	74	142	142	20	

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Expressed data in boldface; connective tissues, normal proliferation and maintenance; cell adhesion

Human telomerase (TERT-3a) "mRNA", complete cds	73	61	30	49	20	228
Human telomerase (TERT-3b) "mRNA", complete cds	1771	1520	1325	1326	2713	1699
Human telomerase (TERT-3c) "mRNA", complete cds	59	134	254	121	245	1699
Human telomerase (TERT-3d) "mRNA", complete cds	20	20	20	44	20	44
Human telomerase (TERT-3e) "mRNA", complete cds	20	20	20	357	72	20
Human telomerase (TERT-3f) "mRNA", complete cds	20	20	20	80	300	103
Human telomerase (TERT-3g) "mRNA", complete cds	20	20	20	20	20	20
Human telomerase (TERT-3h) "mRNA", complete cds	20	20	20	130	169	103
Human telomerase (TERT-3i) "mRNA", complete cds	20	20	20	485	20	87
Human telomerase (TERT-3j) "mRNA", complete cds	337	341	408	20	20	124
Human telomerase (TERT-3k) "mRNA", complete cds	20	20	20	20	20	20
Human telomerase (TERT-3l) "mRNA", complete cds	20	20	20	153	20	20
Human telomerase (TERT-3m) "mRNA", complete cds	65	139	180	20	20	20
Human telomerase (TERT-3n) "mRNA", complete cds	20	20	20	63	32	74
Human telomerase (TERT-3o) "mRNA", complete cds	175	187	654	268	20	173
Human telomerase (TERT-3p) "mRNA", complete cds	24	33	20	20	20	77
Human telomerase (TERT-3q) "mRNA", complete cds	20	20	20	20	20	20
Human telomerase (TERT-3r) "mRNA", complete cds	110	38	133	153	270	301
Human telomerase (TERT-3s) "mRNA", complete cds	48	39	20	51	169	30
Human telomerase (TERT-3t) "mRNA", complete cds	20	20	20	20	20	20
Human telomerase (TERT-3u) "mRNA", complete cds	20	20	20	20	20	20
Human telomerase (TERT-3v) "mRNA", complete cds	20	20	20	20	20	20
Human telomerase (TERT-3w) "mRNA", complete cds	20	20	20	20	20	20
Human telomerase (TERT-3x) "mRNA", complete cds	20	20	20	20	20	20
Human telomerase (TERT-3y) "mRNA", complete cds	20	20	20	20	20	20
Human telomerase (TERT-3z) "mRNA", complete cds	20	20	20	20	20	20
Human telomerase (TERT-3aa) "mRNA", complete cds	20	20	20	20	20	20
Human telomerase (TERT-3ab) "mRNA", complete cds	20	20	20	20	20	20
Human telomerase (TERT-3ac) "mRNA", complete cds	20	20	20	20	20	20
Human telomerase (TERT-3ad) "mRNA", complete cds	20	20	20	20	20	20
Human telomerase (TERT-3ae) "mRNA", complete cds	20	20	20	20	20	20
Human telomerase (TERT-3af) "mRNA", complete cds	20	20	20	20	20	20
Human telomerase (TERT-3ag) "mRNA", complete cds	20	20	20	20	20	20
Human telomerase (TERT-3ah) "mRNA", complete cds	20	20	20	20	20	20
Human telomerase (TERT-3ai) "mRNA", complete cds	20	20	20	20	20	20
Human telomerase (TERT-3aj) "mRNA", complete cds	20	20	20	20	20	20
Human telomerase (TERT-3ak) "mRNA", complete cds	20	20	20	20	20	20
Human telomerase (TERT-3al) "mRNA", complete cds	20	20	20	20	20	20
Human telomerase (TERT-3am) "mRNA", complete cds	20	20	20	20	20	20
Human telomerase (TERT-3an) "mRNA", complete cds	20	20	20	20	20	20
Human telomerase (TERT-3ao) "mRNA", complete cds	20	20	20	20	20	20
Human telomerase (TERT-3ap) "mRNA", complete cds	20	20	20	20	20	20
Human telomerase (TERT-3aq) "mRNA", complete cds	20	20	20	20	20	20
Human telomerase (TERT-3ar) "mRNA", complete cds	20	20	20	20	20	20
Human telomerase (TERT-3as) "mRNA", complete cds	20	20	20	20	20	20
Human telomerase (TERT-3at) "mRNA", complete cds	20	20	20	20	20	20
Human telomerase (TERT-3au) "mRNA", complete cds	20	20	20	20	20	20
Human telomerase (TERT-3av) "mRNA", complete cds	20	20	20	20	20	20
Human telomerase (TERT-3aw) "mRNA", complete cds	20	20	20	20	20	20
Human telomerase (TERT-3ax) "mRNA", complete cds	20	20	20	20	20	20
Human telomerase (TERT-3ay) "mRNA", complete cds	20	20	20	20	20	20
Human telomerase (TERT-3az) "mRNA", complete cds	20	20	20	20	20	20
Human telomerase (TERT-3ba) "mRNA", complete cds	20	20	20	20	20	20
Human telomerase (TERT-3bb) "mRNA", complete cds	20	20	20	20	20	20
Human telomerase (TERT-3bc) "mRNA", complete cds	20	20	20	20	20	20
Human telomerase (TERT-3bd) "mRNA", complete cds	20	20	20	20	20	20
Human telomerase (TERT-3be) "mRNA", complete cds	20	20	20	20	20	20
Human telomerase (TERT-3bf) "mRNA", complete cds	20	20	20	20	20	20
Human telomerase (TERT-3bg) "						

Accession	Gene	Length	GC	GC3	GC4	GC5	GC6	GC7	GC8	GC9	GC10	GC11	GC12	GC13	GC14	GC15	GC16	GC17	GC18	GC19	GC20	GC21	GC22	GC23	GC24	GC25	GC26	GC27	GC28	GC29	GC30	GC31	GC32	GC33	GC34	GC35	GC36	GC37	GC38	GC39	GC40	GC41	GC42	GC43	GC44	GC45	GC46	GC47	GC48	GC49	GC50	GC51	GC52	GC53	GC54	GC55	GC56	GC57	GC58	GC59	GC60	GC61	GC62	GC63	GC64	GC65	GC66	GC67	GC68	GC69	GC70	GC71	GC72	GC73	GC74	GC75	GC76	GC77	GC78	GC79	GC80	GC81	GC82	GC83	GC84	GC85	GC86	GC87	GC88	GC89	GC90	GC91	GC92	GC93	GC94	GC95	GC96	GC97	GC98	GC99	GC100	GC101	GC102	GC103	GC104	GC105	GC106	GC107	GC108	GC109	GC110	GC111	GC112	GC113	GC114	GC115	GC116	GC117	GC118	GC119	GC120	GC121	GC122	GC123	GC124	GC125	GC126	GC127	GC128	GC129	GC130	GC131	GC132	GC133	GC134	GC135	GC136	GC137	GC138	GC139	GC140	GC141	GC142	GC143	GC144	GC145	GC146	GC147	GC148	GC149	GC150	GC151	GC152	GC153	GC154	GC155	GC156	GC157	GC158	GC159	GC160	GC161	GC162	GC163	GC164	GC165	GC166	GC167	GC168	GC169	GC170	GC171	GC172	GC173	GC174	GC175	GC176	GC177	GC178	GC179	GC180	GC181	GC182	GC183	GC184	GC185	GC186	GC187	GC188	GC189	GC190	GC191	GC192	GC193	GC194	GC195	GC196	GC197	GC198	GC199	GC200	GC201	GC202	GC203	GC204	GC205	GC206	GC207	GC208	GC209	GC210	GC211	GC212	GC213	GC214	GC215	GC216	GC217	GC218	GC219	GC220	GC221	GC222	GC223	GC224	GC225	GC226	GC227	GC228	GC229	GC230	GC231	GC232	GC233	GC234	GC235	GC236	GC237	GC238	GC239	GC240	GC241	GC242	GC243	GC244	GC245	GC246	GC247	GC248	GC249	GC250	GC251	GC252	GC253	GC254	GC255	GC256	GC257	GC258	GC259	GC260	GC261	GC262	GC263	GC264	GC265	GC266	GC267	GC268	GC269	GC270	GC271	GC272	GC273	GC274	GC275	GC276	GC277	GC278	GC279	GC280	GC281	GC282	GC283	GC284	GC285	GC286	GC287	GC288	GC289	GC290	GC291	GC292	GC293	GC294	GC295	GC296	GC297	GC298	GC299	GC300	GC301	GC302	GC303	GC304	GC305	GC306	GC307	GC308	GC309	GC310	GC311	GC312	GC313	GC314	GC315	GC316	GC317	GC318	GC319	GC320	GC321	GC322	GC323	GC324	GC325	GC326	GC327	GC328	GC329	GC330	GC331	GC332	GC333	GC334	GC335	GC336	GC337	GC338	GC339	GC340	GC341	GC342	GC343	GC344	GC345	GC346	GC347	GC348	GC349	GC350	GC351	GC352	GC353	GC354	GC355	GC356	GC357	GC358	GC359	GC360	GC361	GC362	GC363	GC364	GC365	GC366	GC367	GC368	GC369	GC370	GC371	GC372	GC373	GC374	GC375	GC376	GC377	GC378	GC379	GC380	GC381	GC382	GC383	GC384	GC385	GC386	GC387	GC388	GC389	GC390	GC391	GC392	GC393	GC394	GC395	GC396	GC397	GC398	GC399	GC400	GC401	GC402	GC403	GC404	GC405	GC406	GC407	GC408	GC409	GC410	GC411	GC412	GC413	GC414	GC415	GC416	GC417	GC418
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Accession	Gene	Chromosome	Start	End	Strand	Size	GC	GC3	GC4	GC5	GC6	GC7	GC8	GC9	GC10	GC11	GC12	GC13	GC14	GC15	GC16	GC17	GC18	GC19	GC20	GC21	GC22	GC23	GC24	GC25	GC26	GC27	GC28	GC29	GC30	GC31	GC32	GC33	GC34	GC35	GC36	GC37	GC38	GC39	GC40	GC41	GC42	GC43	GC44	GC45	GC46	GC47	GC48	GC49	GC50	GC51	GC52	GC53	GC54	GC55	GC56	GC57	GC58	GC59	GC60	GC61	GC62	GC63	GC64	GC65	GC66	GC67	GC68	GC69	GC70	GC71	GC72	GC73	GC74	GC75	GC76	GC77	GC78	GC79	GC80	GC81	GC82	GC83	GC84	GC85	GC86	GC87	GC88	GC89	GC90	GC91	GC92	GC93	GC94	GC95	GC96	GC97	GC98	GC99	GC100	GC101	GC102	GC103	GC104	GC105	GC106	GC107	GC108	GC109	GC110	GC111	GC112	GC113	GC114	GC115	GC116	GC117	GC118	GC119	GC120	GC121	GC122	GC123	GC124	GC125	GC126	GC127	GC128	GC129	GC130	GC131	GC132	GC133	GC134	GC135	GC136	GC137	GC138	GC139	GC140	GC141	GC142	GC143	GC144	GC145	GC146	GC147	GC148	GC149	GC150	GC151	GC152	GC153	GC154	GC155	GC156	GC157	GC158	GC159	GC160	GC161	GC162	GC163	GC164	GC165	GC166	GC167	GC168	GC169	GC170	GC171	GC172	GC173	GC174	GC175	GC176	GC177	GC178	GC179	GC180	GC181	GC182	GC183	GC184	GC185	GC186	GC187	GC188	GC189	GC190	GC191	GC192	GC193	GC194	GC195	GC196	GC197	GC198	GC199	GC200	GC201	GC202	GC203	GC204	GC205	GC206	GC207	GC208	GC209	GC210	GC211	GC212	GC213	GC214	GC215	GC216	GC217	GC218	GC219	GC220	GC221	GC222	GC223	GC224	GC225	GC226	GC227	GC228	GC229	GC230	GC231	GC232	GC233	GC234	GC235	GC236	GC237	GC238	GC239	GC240	GC241	GC242	GC243	GC244	GC245	GC246	GC247	GC248	GC249	GC250	GC251	GC252	GC253	GC254	GC255	GC256	GC257	GC258	GC259	GC260	GC261	GC262	GC263	GC264	GC265	GC266	GC267	GC268	GC269	GC270	GC271	GC272	GC273	GC274	GC275	GC276	GC277	GC278	GC279	GC280	GC281	GC282	GC283	GC284	GC285	GC286	GC287	GC288	GC289	GC290	GC291	GC292	GC293	GC294	GC295	GC296	GC297	GC298	GC299	GC300	GC301	GC302	GC303	GC304	GC305	GC306	GC307	GC308	GC309	GC310	GC311	GC312	GC313	GC314	GC315	GC316	GC317	GC318	GC319	GC320	GC321	GC322	GC323	GC324	GC325	GC326	GC327	GC328	GC329	GC330	GC331	GC332	GC333	GC334	GC335	GC336	GC337	GC338	GC339	GC340	GC341	GC342	GC343	GC344	GC345	GC346	GC347	GC348	GC349	GC350	GC351	GC352	GC353	GC354	GC355	GC356	GC357	GC358	GC359	GC360	GC361	GC362	GC363	GC364	GC365	GC366	GC367	GC368	GC369	GC370	GC371	GC372	GC373	GC374	GC375	GC376	GC377	GC378	GC379	GC380	GC381	GC382	GC383	GC384	GC385	GC386	GC387	GC388	GC389	GC390	GC391	GC392	GC393	GC394	GC395	GC396	GC397	GC398	GC399	GC400	GC401	GC402	GC403	GC404	GC405	GC406	GC407	GC408	GC409	GC410	GC411	GC412	GC413	GC414	GC415
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Gene	Accession	Length	GC	GC3	GC4	GC5	GC6	GC7	GC8	GC9	GC10	GC11	GC12	GC13	GC14	GC15	GC16	GC17	GC18	GC19	GC20	GC21	GC22	GC23	GC24	GC25	GC26	GC27	GC28	GC29	GC30	GC31	GC32	GC33	GC34	GC35	GC36	GC37	GC38	GC39	GC40	GC41	GC42	GC43	GC44	GC45	GC46	GC47	GC48	GC49	GC50	GC51	GC52	GC53	GC54	GC55	GC56	GC57	GC58	GC59	GC60	GC61	GC62	GC63	GC64	GC65	GC66	GC67	GC68	GC69	GC70	GC71	GC72	GC73	GC74	GC75	GC76	GC77	GC78	GC79	GC80	GC81	GC82	GC83	GC84	GC85	GC86	GC87	GC88	GC89	GC90	GC91	GC92	GC93	GC94	GC95	GC96	GC97	GC98	GC99	GC100	GC101	GC102	GC103	GC104	GC105	GC106	GC107	GC108	GC109	GC110	GC111	GC112	GC113	GC114	GC115	GC116	GC117	GC118	GC119	GC120	GC121	GC122	GC123	GC124	GC125	GC126	GC127	GC128	GC129	GC130	GC131	GC132	GC133	GC134	GC135	GC136	GC137	GC138	GC139	GC140	GC141	GC142	GC143	GC144	GC145	GC146	GC147	GC148	GC149	GC150	GC151	GC152	GC153	GC154	GC155	GC156	GC157	GC158	GC159	GC160	GC161	GC162	GC163	GC164	GC165	GC166	GC167	GC168	GC169	GC170	GC171	GC172	GC173	GC174	GC175	GC176	GC177	GC178	GC179	GC180	GC181	GC182	GC183	GC184	GC185	GC186	GC187	GC188	GC189	GC190	GC191	GC192	GC193	GC194	GC195	GC196	GC197	GC198	GC199	GC200	GC201	GC202	GC203	GC204	GC205	GC206	GC207	GC208	GC209	GC210	GC211	GC212	GC213	GC214	GC215	GC216	GC217	GC218	GC219	GC220	GC221	GC222	GC223	GC224	GC225	GC226	GC227	GC228	GC229	GC230	GC231	GC232	GC233	GC234	GC235	GC236	GC237	GC238	GC239	GC240	GC241	GC242	GC243	GC244	GC245	GC246	GC247	GC248	GC249	GC250	GC251	GC252	GC253	GC254	GC255	GC256	GC257	GC258	GC259	GC260	GC261	GC262	GC263	GC264	GC265	GC266	GC267	GC268	GC269	GC270	GC271	GC272	GC273	GC274	GC275	GC276	GC277	GC278	GC279	GC280	GC281	GC282	GC283	GC284	GC285	GC286	GC287	GC288	GC289	GC290	GC291	GC292	GC293	GC294	GC295	GC296	GC297	GC298	GC299	GC300	GC301	GC302	GC303	GC304	GC305	GC306	GC307	GC308	GC309	GC310	GC311	GC312	GC313	GC314	GC315	GC316	GC317	GC318	GC319	GC320	GC321	GC322	GC323	GC324	GC325	GC326	GC327	GC328	GC329	GC330	GC331	GC332	GC333	GC334	GC335	GC336	GC337	GC338	GC339	GC340	GC341	GC342	GC343	GC344	GC345	GC346	GC347	GC348	GC349	GC350	GC351	GC352	GC353	GC354	GC355	GC356	GC357	GC358	GC359	GC360	GC361	GC362	GC363	GC364	GC365	GC366	GC367	GC368	GC369	GC370	GC371	GC372	GC373	GC374	GC375	GC376	GC377	GC378	GC379	GC380	GC381	GC382	GC383	GC384	GC385	GC386	GC387	GC388	GC389	GC390	GC391	GC392	GC393	GC394	GC395	GC396	GC397	GC398	GC399	GC400	GC401	GC402	GC403	GC404	GC405	GC406	GC407	GC408	GC409	GC410	GC411	GC412	GC413	GC414	GC415	GC416	GC417	GC418
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Expressed RNA in Suburothelial connective tissue, Normal urothelium and Transitional cell carcinoma											
M29580_at	Human zinc finger protein 7 (ZFP7) "mRNA", complete cds	20	20	20	20	20	20	20	20	20	20
M29581_at	Human zinc finger protein 8 (ZFP8) "mRNA", 3' end	18	65	112	124	111	111	111	111	111	111
M29610_at	Human glycophorin E "mRNA", complete cds	42	22	31	31	20	20	20	20	20	20
M29699_at	Human integrin alpha 7 receptor (ITGA7) "mRNA", complete cds	20	27	31	31	20	20	20	20	20	20
M29699_s1	Human cytochrome P450-10B (CYP10B) "mRNA", complete cds	246	251	182	178	387	457	457	457	457	457
M29699_s2	Human alpha-1,3-glucosidase, complete cds	181	457	1112	462	418	275	275	275	275	275
M29699_s3	Human ornithine aminotransferase gene	147	49	20	20	20	20	20	20	20	20
M29699_s4	Human beta-3-adrenergic receptor gene	89	137	328	138	190	68	68	68	68	68
M29699_s5	Human steroid receptor (STR-1) "mRNA", complete cds	66	137	328	138	190	68	68	68	68	68
M29699_s6	Human 6-O-methylguanine-DNA methyltransferase (MGMT) "mRNA", complete cds	89	137	328	138	190	68	68	68	68	68
M29699_s7	Human alpha-1,3-glucosidase, complete cds	51	165	62	136	142	130	130	130	130	130
M29699_s8	Human alpha-1,3-glucosidase, complete cds	20	56	62	136	142	130	130	130	130	130
M29699_s9	Human P40 T-cell and mast cell growth factor (P40) "mRNA", complete cds	20	20	20	20	20	20	20	20	20	20
M29699_s10	Human cholesterol ester transfer protein "mRNA", complete cds	59	85	59	45	39	29	29	29	29	29
M29699_s11	Human vascular cell adhesion molecule 1 "mRNA", complete cds	82	20	28	20	20	90	90	90	90	90
M29699_s12	Human nidogen "mRNA", complete cds	239	357	738	687	538	273	273	273	273	273
M29699_s13	Human ubiquitin carboxyl-terminal hydrolase (PGP "9.5", UCH-L3) "mRNA", complete cds	33	21	127	70	113	25	25	25	25	25
M29699_s14	Human zinc finger protein X-linked (ZFX) "mRNA", complete cds	30	20	20	20	20	20	20	20	20	20
M29699_s15	Human aspartate G2 receptor "mRNA", complete cds	160	20	20	20	20	20	20	20	20	20
M29699_s16	Human aspartate G2 receptor "mRNA", complete cds	43	98	52	40	333	204	204	204	204	204
M29699_s17	Human calcitonin B "mRNA", complete cds	43	98	52	40	333	204	204	204	204	204
M29699_s18	Human integrin alpha 7 receptor (ITGA7) "mRNA", complete cds	96	75	171	117	148	59	59	59	59	59
M29699_s19	Human integrin alpha 7 receptor (ITGA7) "mRNA", complete cds	121	93	507	186	45	258	258	258	258	258
M29699_s20	Human T-cell receptor T1 rearranged gamma-chain mRNA V-J-C region, complete cds	274	175	792	268	232	20	20	20	20	20
M29699_s21	Human Ku (p70p80) subunit "mRNA", complete cds	20	20	20	20	20	20	20	20	20	20
M29699_s22	Human nonmuscle myosin heavy chain (NMHC) "mRNA", 3' end	51	20	35	28	20	20	20	20	20	20
M29699_s23	Human steroid 17-alpha-hydroxylase gene	20	20	20	20	20	20	20	20	20	20
M29699_s24	Human CAMP-dependent protein kinase subunit RII-beta "mRNA", complete cds	20	20	20	20	20	20	20	20	20	20
M29699_s25	Human integrin alpha 7 receptor (ITGA7) "mRNA", complete cds	36	20	20	20	20	20	20	20	20	20
M29699_s26	Human integrin alpha 7 receptor (ITGA7) "mRNA", complete cds	30	29	33	49	20	68	68	68	68	68
M29699_s27	Human propionyl-CoA carboxylase beta subunit (beta-PCC) "mRNA", complete cds	25	20	20	20	20	20	20	20	20	20
M29699_s28	Human endothelial differentiation protein (edp-1) gene "mRNA", complete cds	20	20	20	20	20	20	20	20	20	20
M29699_s29	Human myosin light chain 1 slow 4 (MLC1s4) "mRNA", complete cds	20	20	20	20	20	20	20	20	20	20
M29699_s30	Human complement receptor 1 (CR1) gene	271	274	373	245	752	721	721	721	721	721
M29699_s31	Human osteonectin 18 (Op18) gene, complete cds	182	112	211	140	182	255	255	255	255	255
M29699_s32	Human guanine nucleotide-binding protein beta-3 subunit "mRNA", complete cds	20	20	20	20	20	20	20	20	20	20
M29699_s33	Human cerebellar degeneration-related antigen (CDR3A) gene, complete cds	48	20	45	62	70	20	20	20	20	20
M29699_s34	Human decay-accelerating factor "mRNA", complete cds	1876	2526	3539	2478	885	1027	1027	1027	1027	1027
M29699_s35	Human ribosomal protein S24 mRNA	20	20	20	20	20	20	20	20	20	20
M29699_s36	Human transcription factor (E2A) "mRNA", complete cds	2242	7085	5080	4488	1497	1572	1572	1572	1572	1572
M29699_s37	Human MHC class II lymphocyte antigen (HLA-DNA) gene, complete cds	314	178	281	108	205	120	120	120	120	120
M29699_s38	Human uridine kinase inhibitor (PAI-2) gene	219	20	20	20	20	52	52	52	52	52
M29699_s39	Human phosphatase kinase (PSK-C3) "mRNA", complete cds	177	219	484	246	44	44	44	44	44	44
M29699_s40	Human X box binding protein 1 (XBP-1) "mRNA", complete cds	51	55	145	121	20	39	39	39	39	39
M29699_s41	Human hypoxanthine phosphoribosyltransferase (HPRT) "mRNA", complete cds	20	20	20	20	20	20	20	20	20	20
M29699_s42	Human human set hormone-binding globulin (SHBG) gene, complete cds	20	79	55	65	20	20	20	20	20	20
M29699_s43	Human G1 mitochondrial solute carrier protein homologue "mRNA", complete cds	20	20	20	20	20	20	20	20	20	20
M29699_s44	Human prolactin (PRL) receptor "mRNA", complete cds	156	337	102	233	20	83	83	83	83	83
M29699_s45	Human cytochrome P450 (CYP1A2) gene	20	20	20	20	20	189	189	189	189	189
M29699_s46	Human integrin alpha 7 receptor (ITGA7) "mRNA", complete cds	20	20	20	20	20	20	20	20	20	20
M29699_s47	Human integrin alpha 7 receptor (ITGA7) "mRNA", complete cds	20	20	20	20	20	20	20	20	20	20
M29699_s48	Human integrin alpha 7 receptor (ITGA7) "mRNA", complete cds	20	20	20	20	20	20	20	20	20	20
M29699_s49	Human DNA repair nuclease (ERCC3) "mRNA", complete cds	20	20	20	20	20	20	20	20	20	20
M29699_s50	Human IgG binding protein (Fc gamma receptor (Fc gamma R)) "mRNA", complete cds	20	20	20	20	20	20	20	20	20	20
M29699_s51	Human perlecan (PRP-1) gene, complete cds	237	123	79	101	258	228	228	228	228	228
M29699_s52	Human cytosolic aldehyde dehydrogenase (ALDH1) gene	2486	452	10414	122	1359	341	341	341	341	341
M29699_s53	Human neurexophil oxidase factor (p57-phox) "mRNA", complete cds	20	20	20	20	20	20	20	20	20	20
M29699_s54	Human H19 RNA gene, complete cds (spliced in silico)	20	20	20	20	20	20	20	20	20	20
M29699_s55	Human methylenetetrahydrofolate reductase "mRNA", complete cds	113	194	164	164	373	235	235	235	235	235
M29699_s56	Human steroid 5-alpha-reductase "mRNA", complete cds	69	125	72	100	112	204	204	204	204	204
M29699_s57	Human tumor necrosis factor receptor "mRNA", complete cds	20	131	72	60	20	20	20	20	20	20
M29699_s58	Human intercellular adhesion molecule 2 (ICAM-2) gene	20	20	20	20	20	20	20	20	20	20
M29699_s59	Human arylsulfatase B (ASB) "mRNA", complete cds	20	20	20	20	20	20	20	20	20	20



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Human erythropoietin receptor "mRNA", complete cds	125
Human proteinase-2, catalytic subunit-alpha gene, complete cds	121
Human proteinase-2, catalytic subunit-alpha gene, partial cds	122
Human proteinase-2, catalytic subunit-alpha gene, partial cds	121
Human proteinase-2, catalytic subunit-alpha gene, partial cds	121
Human proteinase-2, catalytic subunit-alpha gene, partial cds	121
Human proteinase-2, catalytic subunit-alpha gene, partial cds	121
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Human proteinase-2, catalytic subunit-alpha gene, partial cds	121
Human proteinase-2, catalytic subunit-alpha gene, partial cds	121
Human proteinase-2, catalytic subunit-alpha gene, partial cds	121
Human proteinase-2, catalytic subunit-alpha gene, partial cds	1

	Expressed RNA in Subcutaneous connective tissue, Normal urothelium and Transitional cell carcinomas	251	307	219	228	229
M63483_at	Human major nuclear matrix protein mRNA	20	20	20	20	20
M63488_at	Human replication protein A FcDx subunit mRNA complete cds	20	20	20	20	20
M63573_at	Human secreted cytoplasmic-like protein (SCT-IP) "mRNA," complete cds	151	242	20	213	20
M63577_at	Human preprorenin-releasing hormone gene	163	20	105	74	20
M63579_at	Human stem cell leukemia gene product	33	53	32	103	20
M63580_at	Human phosphatase "mRNA," complete cds	225	73	67	103	20
M63581_at	Human oligodendrocyte-myelin glycoprotein (OMGP) "mRNA," complete cds	20	20	20	57	20
M63582_at	Human IgG Fc receptor 1 gene	20	20	20	20	20
M63583_at	Human interferon-gamma induced protein (IF116) "gene," complete cds	20	20	20	20	20
M63584_at	Homo sapiens transcriptional enhancer factor (TEF1) "DNA," complete CDS	88	152	110	97	20
M63585_at	Homo sapiens T cell activation antigen (CD27) "mRNA," complete cds	70	178	73	73	20
M63586_at	Homo sapiens T cell activation antigen (CD27) "mRNA," complete cds	61	71	20	120	20
M63587_at	Human alpha-2-macroglobulin receptor-associated protein "mRNA," complete cds	288	294	270	188	20
M63588_at	Human galactose 4-epimerase catalytic subunit gene, complete cds	457	20	20	20	20
M63589_at	Human mitochondrial aldehyde dehydrogenase 5 "gene," complete cds	20	20	20	20	20
M63590_at	Human lamin-containing monocarboxylate transporter 1 "mRNA," complete cds	73	20	20	20	20
M63591_at	Human high density lipoprotein-binding protein (HBP) "mRNA," complete cds	140	22	93	22	20
M63592_at	Human gamma-glutamyl transpeptidase-related protein (GGT-RP) "mRNA," complete cds	101	205	256	197	20
M63593_at	Human actinin 1 "mRNA," 3' end	123	111	97	134	20
M63594_at	Human protein tyrosine kinase (JAK1) "mRNA," complete cds	208	133	97	134	20
M63595_at	Human spermatide lysosome "gene," complete cds	104	20	20	20	20
M63596_at	Human meat cell myosin "gene," complete cds	346	20	20	20	20
M63597_at	Human novel growth factor receptor "mRNA," 3' cds	133	45	20	20	20
M63598_at	Human throm-5 "gene," exon 1/gp-beta-358 myope-DNA lamot-exon	153	1679	233	166	20
M63599_at	Human apolipoprotein AI regulatory protein (ApoAI) "mRNA," complete cds	20	20	20	20	20
M63600_at	Human factor XIII b subunit gene, complete cds	126	135	127	28	20
M63601_at	Human microtubule-associated protein 4 "mRNA," complete cds	20	33	63	20	20
M63602_at	Human protein tyrosine phosphatase "mRNA," complete cds	176	208	20	20	20
M63603_at	Human glycine decarboxylase "mRNA," complete cds	211	126	88	20	20
M63604_at	Human small G protein (Gq) "mRNA," 3' end	89	55	52	44	20
M63605_at	Human heat shock factor 1 (TCF5) "mRNA," complete cds	74	81	157	126	20
M63606_at	Human K+ channel subunit "gene," complete cds	505	352	20	42	20
M63607_at	Human C-type natriuretic peptide "gene," complete cds	101	20	20	20	20
M63608_at	Human glutamate receptor subunit S25 "mRNA," complete cds	20	20	20	20	20
M63609_at	Human ribosomal protein S25 "mRNA," complete cds	1554	5633	3345	3228	20
M63610_at	Human ETPase activating protein (rap GAP) "mRNA," complete cds	2397	20	38	20	20
M63611_at	Human peroxisomal membrane protein (PMP1) "mRNA," complete cds	20	20	20	20	20
M63612_at	Human protein phosphatase 2A alpha subunit "mRNA," complete cds	20	106	64	106	20
M63613_at	Human protein phosphatase 2A beta subunit "mRNA," complete cds	51	20	57	124	20
M63614_at	Human tel blood group protein mRNA	370	33	55	74	20
M63615_at	Homo sapiens retinoic acid-inducible endogenous retroviral DNA	410	143	55	74	20
M63616_at	Human pro-oncogene P-30-33K (pros-30) "mRNA," complete cds	113	23	20	20	20
M63617_at	Human insulin-like growth factor binding protein 5 (IGFBP-5) "mRNA," complete cds	116	20	90	210	20
M63618_at	Human CAMP-dependent protein kinase regulatory subunit R1-beta "mRNA," 3' end	20	20	20	20	20
M63619_at	Human follicle stimulating hormone receptor "mRNA," complete cds	469	311	75	98	20
M63620_at	Human methylmalonyl-CoA mutase (MCM) "mRNA," complete cds	131	105	73	63	20
M63621_at	Human complement component C5 "mRNA," 3' end	156	55	102	73	20
M63622_at	Human endothelin 2 (ET2) "mRNA," complete cds	39	74	26	40	20
M63623_at	Human (HeLa) heparin-binding protein HEAT (E2A) "mRNA," 3' end	100	20	20	20	20
M63624_at	Human heat shock factor 2 (HSF2) "mRNA," complete cds	20	20	20	72	20
M63625_at	Protein phosphatase 2A B5 kDa regulatory subunit-beta "mRNA," complete cds	240	158	145	89	20
M63626_at	Human natural killer cell stimulatory factor (NKSF) "mRNA," clone p40	346	200	65	20	20
M63627_at	Human natural killer cell stimulatory factor (NKSF) "mRNA," clone p35	20	20	20	20	20
M63628_at	Human factor H homologue "mRNA," complete cds	88	20	86	43	20
M63629_at	Human D5 dopamine receptor (DRD5) gene, complete cds	59	377			

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		20	20	20	20	20	20	20	20	20	20
M83772.1	Human flavin-containing monooxygenase form II (FMO2) "mRNA", complete cds	20	20	20	20	20	20	20	20	20	20
M83922.1	Human beige-like protein (BGL) "mRNA", partial cds	20	20	20	20	20	20	20	20	20	20
M83941.1	Human receptor tyrosine kinase (HEK) "mRNA", complete cds	767	370	1018	590	490	731	20	20	20	20
M84332.1	Human ADP-ribosylation factor 1 gene	286	415	287	169	428	20	20	20	20	20
M84349.1	Human transmembrane protein (CD59) gene	20	85	20	300	413	136	30	20	20	20
M84371.1	Human CD19 "gene", complete cds	1875	2281	29	300	413	136	30	20	20	20
M84424.1	Human caltharin E (CTSE) gene	50	20	20	3824	595	2287	20	20	20	20
M84526.1	Human adiponectin complement factor D "mRNA", complete cds	3651	3355	5586	218	480	186	20	20	20	20
M84605.1	Human putative opoid receptor "mRNA", complete cds	239	108	20	20	20	20	20	20	20	20
M84711.1	Human K-los transformation effector protein "Fle-1", "mRNA", complete cds	47	74	20	20	20	20	20	20	20	20
M84739.1	Human autotaxin cathepsin "mRNA", complete cds	95	74	20	20	20	20	20	20	20	20
M84820.1	Human retinoid X receptor beta (RXR-beta) "mRNA", complete cds	47	74	20	20	20	20	20	20	20	20
M85085.1	Human cleavage stimulation factor, complete cds	44	27	60	43	20	71	20	20	20	20
M85164.1	Human SFR accessory protein 19 (SAP-1) "mRNA", complete cds	36	20	55	20	33	63	20	20	20	20
M85165.1	Human SFR accessory protein 1A (SAP-1) "mRNA", complete cds	80	20	20	20	20	20	20	20	20	20
M85169.1	Human homolog of yeast Sec7 "mRNA", complete cds	20	48	20	20	20	20	20	20	20	20
M85217.1	H.sapiens K+ channel protein (KALX) "mRNA", complete cds	22	496	20	20	74	20	20	20	20	20
M85220.1	Human heavy chain disease Iga chain "gene", Cys region with a 369 bp deletion, 3' end	93	141	20	20	11	175	31	20	20	20
M85247.1	H.sapiens dopamine D1A receptor "gene", complete exon 1, and exon 2, 5' and 3' UTR	50	120	20	20	71	100	144	20	20	20
M85276.1	Human heparan sulfate proteoglycan (HSPG2) "mRNA", complete cds	33	171	20	20	57	265	70	20	20	20
M85289.1	H.sapiens nicotinic acetylcholine receptor alpha 3 subunit "mRNA", complete cds	1653	387	1250	399	1056	1550	20	20	20	20
M85383.1	Human phospholipase A2 "mRNA", complete cds	20	36	20	20	20	20	20	20	20	20
M85400.1	Human phospholipase A2 "mRNA", complete cds	200	150	192	120	319	268	109	20	20	20
M85406.1	Homo sapiens alpha actinin 3 (ACTN3) "mRNA", complete cds	140	189	184	156	315	243	243	20	20	20
M85407.1	Homo sapiens alpha actinin 3 (ACTN3) "mRNA", complete cds	233	166	342	252	104	242	242	20	20	20
M85526.1	H.sapiens PDX1 and PDX1b "mRNA", complete cds	20	32	20	20	256	128	128	20	20	20
M8566.1	H.sapiens MAP (nucleosome assembly protein) "mRNA", complete cds	20	56	104	90	23	148	148	20	20	20
M8571.1	Homo sapiens myotubular myofibrillar myosin "mRNA", complete cds	106	20	20	20	85	20	20	20	20	20
M8572.1	Human high mobility group box (SSRP1) "mRNA", complete cds	10368	20	20	20	20	20	20	20	20	20
M8573.1	Human transformation-sensitive protein (IEF SSP 3521) "mRNA", complete cds	28	75	20	20	206	160	160	20	20	20
M8575.1	Human pyruvate dehydrogenase complex (PDH2) "gene", complete cds	675	20	20	20	54	101	111	20	20	20
M85809.1	Human IGF binding protein complex acid-labile subunit "mRNA", complete cds	20	20	20	20	20	20	20	20	20	20
M85826.1	Human connexin 26 (GJB2) "mRNA"	20	20	20	20	20	20	20	20	20	20
M85849.1	H.sapiens peroxisome assembly factor-1 "mRNA", complete cds	43	20	20	20	20	20	20	20	20	20
M85852.1	Human gamma amino butyric acid (GABA mod) gene "mRNA", complete cds	30	20	20	20	84	75	378	20	20	20
M85856.1	H.sapiens type A plasminogen related gene	22	24	20	20	69	37	155	20	20	20
M85873.1	Human oxysterol-binding protein (OSBP) "mRNA", complete cds	20	20	20	20	108	20	20	20	20	20
M85917.1	Human amelogenin (AMELY) "mRNA", complete cds	56	20	20	20	67	20	82	20	20	20
M85933.1	Human CS1 (protein of unknown function) "mRNA", complete cds	113	202	188	130	156	47	47	20	20	20
M85934.1	Human 69 kDa 25 oligodehydrogenase (P69 25A synthetase) "mRNA", complete cds	20	20	20	20	161	148	148	20	20	20
M85978.1	Homo sapiens myotubular myofibrillar myosin (DM) "mRNA"	20	20	20	20	20	20	20	20	20	20
M87313.1	Human replication factor C, 40-kDa subunit (A1) "mRNA", complete cds	69	69	39	58	26	78	78	20	20	20
M87339.1	Human replication factor C, 37-kDa subunit "mRNA", complete cds	65	20	20	20	20	20	20	20	20	20
M87436.1	Human 71 kDa 23 oligodehydrogenase (P69 23A synthetase) "mRNA", complete cds	20	20	20	20	20	20	20	20	20	20
M87495.1	Human uracil-DNA glycosylase (UNG) "gene", complete cds	111	140	244	131	191	207	191	20	20	20
M87505.1	Human IFN-responsive transcription factor subunit "mRNA", complete cds	20	20	20	20	20	20	20	20	20	20
M87565.1	Homo sapiens interferon-1 beta convertase (IL1BCE) "mRNA", complete cds	54	63	147	109	20	115	115	20	20	20
M87770.1	Human fibroblast growth factor receptor (K-sam) "mRNA", complete cds	3447	1078	20	20	303	4769	4769	20	20	20
M87789.1	Human S-lac lectin L-1-k11 (LGALS2) gene	91	53	20	20	62	177	177	20	20	20
M87800.1	Human p22 "mRNA", complete cds	112	88	297	266	78	160	160	20	20	20
M88106.1	Human global transcription activator homologous sequence "mRNA", complete cds	34	74	130	23	35	350	350	20	20	20
M88279.1	Human immunophilin (FKBP32) "mRNA", complete cds	24	122	373	352	450	350	350	20	20	20
M88338.1	Human tacite protein "mRNA", complete cds	20	20	20	20	75	104	104	20	20	20
M88458.1	Human serum constituent protein (MSE55) "mRNA", complete cds	391	283	93	354	480	510	510	20	20	20
M88461.1	Human neuropilin Y peptide YY receptor "mRNA", complete cds	285	133	317	227	352	251	251	20	20	20
M88466.1	Homo sapiens intracellular kinase "mRNA", complete cds	536	317	226	523	697	511	511	20	20	20
M88576.1	Human zinc finger protein (SRE-2BP) "mRNA", 3' end	62	89	66	20	20	20	20	20	20	20
M89470.1	Human paired-box protein (PAX2) "mRNA", complete cds	20	20	20	20	20	20	20	20	20	20
M89473.1	Human neurotrophin 3 receptor (NGFR) "mRNA", complete cds	174	135	305	131	156	260	260	20	20	20
M89766.1	Human high affinity IgE receptor beta chain gene, complete cds	20	20	20	20	20	20	20	20	20	20
M89914.1	Human neurofibromin (NF1) "gene", complete cds	20	20	20	20	20	20	20	20	20	20

Gene	Accession	Length	GC	GC3	GC4	GC5	GC6	GC7	GC8	GC9	GC10	GC11	GC12	GC13	GC14	GC15	GC16	GC17	GC18	GC19	GC20	GC21	GC22	GC23	GC24	GC25	GC26	GC27	GC28	GC29	GC30	GC31	GC32	GC33	GC34	GC35	GC36	GC37	GC38	GC39	GC40	GC41	GC42	GC43	GC44	GC45	GC46	GC47	GC48	GC49	GC50	GC51	GC52	GC53	GC54	GC55	GC56	GC57	GC58	GC59	GC60	GC61	GC62	GC63	GC64	GC65	GC66	GC67	GC68	GC69	GC70	GC71	GC72	GC73	GC74	GC75	GC76	GC77	GC78	GC79	GC80	GC81	GC82	GC83	GC84	GC85	GC86	GC87	GC88	GC89	GC90	GC91	GC92	GC93	GC94	GC95	GC96	GC97	GC98	GC99	GC100	GC101	GC102	GC103	GC104	GC105	GC106	GC107	GC108	GC109	GC110	GC111	GC112	GC113	GC114	GC115	GC116	GC117	GC118	GC119	GC120	GC121	GC122	GC123	GC124	GC125	GC126	GC127	GC128	GC129	GC130	GC131	GC132	GC133	GC134	GC135	GC136	GC137	GC138	GC139	GC140	GC141	GC142	GC143	GC144	GC145	GC146	GC147	GC148	GC149	GC150	GC151	GC152	GC153	GC154	GC155	GC156	GC157	GC158	GC159	GC160	GC161	GC162	GC163	GC164	GC165	GC166	GC167	GC168	GC169	GC170	GC171	GC172	GC173	GC174	GC175	GC176	GC177	GC178	GC179	GC180	GC181	GC182	GC183	GC184	GC185	GC186	GC187	GC188	GC189	GC190	GC191	GC192	GC193	GC194	GC195	GC196	GC197	GC198	GC199	GC200	GC201	GC202	GC203	GC204	GC205	GC206	GC207	GC208	GC209	GC210	GC211	GC212	GC213	GC214	GC215	GC216	GC217	GC218	GC219	GC220	GC221	GC222	GC223	GC224	GC225	GC226	GC227	GC228	GC229	GC230	GC231	GC232	GC233	GC234	GC235	GC236	GC237	GC238	GC239	GC240	GC241	GC242	GC243	GC244	GC245	GC246	GC247	GC248	GC249	GC250	GC251	GC252	GC253	GC254	GC255	GC256	GC257	GC258	GC259	GC260	GC261	GC262	GC263	GC264	GC265	GC266	GC267	GC268	GC269	GC270	GC271	GC272	GC273	GC274	GC275	GC276	GC277	GC278	GC279	GC280	GC281	GC282	GC283	GC284	GC285	GC286	GC287	GC288	GC289	GC290	GC291	GC292	GC293	GC294	GC295	GC296	GC297	GC298	GC299	GC300	GC301	GC302	GC303	GC304	GC305	GC306	GC307	GC308	GC309	GC310	GC311	GC312	GC313	GC314	GC315	GC316	GC317	GC318	GC319	GC320	GC321	GC322	GC323	GC324	GC325	GC326	GC327	GC328	GC329	GC330	GC331	GC332	GC333	GC334	GC335	GC336	GC337	GC338	GC339	GC340	GC341	GC342	GC343	GC344	GC345	GC346	GC347	GC348	GC349	GC350	GC351	GC352	GC353	GC354	GC355	GC356	GC357	GC358	GC359	GC360	GC361	GC362	GC363	GC364	GC365	GC366	GC367	GC368	GC369	GC370	GC371	GC372	GC373	GC374	GC375	GC376	GC377	GC378	GC379	GC380	GC381	GC382	GC383	GC384	GC385	GC386	GC387	GC388	GC389	GC390	GC391	GC392	GC393	GC394	GC395	GC396	GC397	GC398	GC399	GC400	GC401	GC402	GC403	GC404	GC405	GC406	GC407	GC408	GC409	GC410	GC411	GC412	GC413	GC414	GC415	GC416	GC417	GC418
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Side 52

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Expressed RNA in Subepithelial connective tissue, Normal urothelium and Transitional cell carcinomas											
		43	90	71	90	41	93				
U02632_at	Human calcium-activated potassium channel "mRNA", partial cds	116	72	208	69	224	42				
U02680_at	Human protein tyrosine kinase "mRNA", complete cds	116	72	208	69	224	42				
U02683_at	Human alpha poliovirus binding protein "mRNA", complete cds	116	72	208	69	224	42				
U02687_at	Human growth factor receptor tyrosine kinase (STK-1) "mRNA", complete cds	116	72	208	69	224	42				
U03055_at	Human tumor suppressor (LUC-1) "mRNA", complete cds	116	72	208	69	224	42				
U03057_at	Human actin binding protein (HBN) "mRNA", complete cds	116	72	208	69	224	42				
U03080_at	Human Ca2+-dependent phosphatase A2 "mRNA", complete cds	116	72	208	69	224	42				
U03100_at	Human epithelial sodium channel "mRNA", complete cds	116	72	208	69	224	42				
U03105_at	Human B4-2 protein "mRNA", complete cds	116	72	208	69	224	42				
U03187_at	Human IL12 receptor component "mRNA", complete cds	116	72	208	69	224	42				
U03270_at	Human ceritin "mRNA", complete cds	116	72	208	69	224	42				
U03272_at	Human fibroblast "mRNA", complete cds	116	72	208	69	224	42				
U03397_at	Human botulinum toxin "mRNA", complete cds	116	72	208	69	224	42				
U03398_at	Human receptor protein 4-1BB "mRNA", complete cds	116	72	208	69	224	42				
U03399_at	Human receptor protein 4-1BB ligand "mRNA", complete cds	116	72	208	69	224	42				
U03486_at	Human T-complex protein 10A (TCPT10A) "mRNA", complete cds	116	72	208	69	224	42				
U03494_at	Human connexin40 "mRNA", complete cds	116	72	208	69	224	42				
U03534_at	Human transcription factor LSF "mRNA", complete cds	116	72	208	69	224	42				
U03542_at	Human P47 LBC oncogene "mRNA", complete cds	116	72	208	69	224	42				
U03544_at	Human G protein-coupled receptor APJ "mRNA", complete cds	116	72	208	69	224	42				
U03568_at	Human receptor "mRNA", complete cds	116	72	208	69	224	42				
U03569_at	Human diacylglycerol cytochrome P450 (CYP1B1) "mRNA", complete cds	116	72	208	69	224	42				
U03575_at	Human MAG-3 antigen (MAGE-3) "mRNA", complete cds	116	72	208	69	224	42				
U03581_at	Human cargo protein alpha "mRNA", complete cds	116	72	208	69	224	42				
U03582_at	Human R3 ligand "mRNA", complete cds	116	72	208	69	224	42				
U03587_at	Human extracellular protein (S1-5) "mRNA", complete cds	116	72	208	69	224	42				
U03588_at	Human GS2 "mRNA", complete cds	116	72	208	69	224	42				
U03589_at	Human photobion 1 "mRNA", partial cds	116	72	208	69	224	42				
U03593_at	Human monocyte chemoattractant protein 1 receptor (MCP-1R) alternatively spliced "mRNA", complete cds	116	72	208	69	224	42				
U03591_at	Human mutant gene (MMSH2) "mRNA", complete cds	116	72	208	69	224	42				
U04009_at	Human esophageal microfibillar protein "mRNA", complete cds	116	72	208	69	224	42				
U04020_at	Human homolog of Drosophila enhancer of split mslm10 "mRNA", complete cds	116	72	208	69	224	42				
U04241_at	Human putative potassium channel subunit (h-erg) "mRNA", complete cds	116	72	208	69	224	42				
U04270_at	Human lysosomal acid "lipase", cholesteryl ester hydrolase (LIPA) gene	116	72	208	69	224	42				
U04285_at	Human maspin "mRNA", complete cds	116	72	208	69	224	42				
U04313_at	Human pregnancy-specific beta-1-glycoprotein alternatively spliced C-R, C-S, C-B, and C-A domains (PSG1) gene, partial cds	116	72	208	69	224	42				
U04325_at	Human CD68 antigen "mRNA", complete cds	116	72	208	69	224	42				
U04320_at	Human type IV collagen alpha chain (COL4A5) gene	116	72	208	69	224	42				
U04336_at	Human cyclo-oxygenase-2 (COX-2) "mRNA", complete cds	116	72	208	69	224	42				
U04733_at	Human microtubule stress 70 protein ATPase core (ech) "mRNA", complete cds	116	72	208	69	224	42				
U04808_at	Human insulin "mRNA", complete cds	116	72	208	69	224	42				
U04810_at	Human trophoblast "mRNA", complete cds	116	72	208	69	224	42				
U04811_at	Human oncofetal ventral antigen-1 (Nerve-1) "mRNA", complete cds	116	72	208	69	224	42				
U04840_at	Human Irf1 "mRNA", complete cds	116	72	208	69	224	42				
U04841_at	Human orphan hormone nuclear receptor RORalpha2 "mRNA", complete cds	116	72	208	69	224	42				
U05012_at	Human receptor tyrosine kinase TrkC (NTRK3) "mRNA", complete cds	116	72	208	69	224	42				
U05040_at	Human FUSE binding protein "mRNA", complete cds	116	72	208	69	224	42				
U05221_at	Human Rlg protein "mRNA", complete cds	116	72	208	69	224	42				
U05237_at	Human fetal A1-50-reactive clone 1 (FAC1) "mRNA", complete cds	116	72	208	69	224	42				
U05255_at	Human glycophorin HeP2 "mRNA", partial cds	116	72	208	69	224	42				
U05255_at	Human MB-1 gene, complete cds	116	72	208	69	224	42				
U05259_at	Human fibronectin "mRNA", partial cds	116	72	208	69	224	42				
U05261_at	Human x-linked PEST-containing transporter (XPC1) gene, promoter and	116	72	208	69	224	42				
U05321_at	Human p55CDC "mRNA", complete cds	116	72	208	69	224	42				
U05340_at	Human ribosomal alpha mannosidase (MANB) "mRNA", complete cds	116	72	208	69	224	42				
U05572_at	Human ribosomal protein S1 homolog "mRNA", partial cds	116	72	208	69	224	42				
U05589_at	Human 17 beta-hydroxysteroid dehydrogenase 12C "mRNA", complete cds	116	72	208	69	224	42				
U05589_at	Human proopiomelanocortin BCL3 gene	116	72	208	69	224	42				
U05589_at	Human hepatic chylomicron chylidogenesis gene	116	72	208	69	224	42				
U05589_at	Human clone pSK1 encoding gamma receptor accessory factor-1 (AF-1) "mRNA", complete cds	116	72	208	69	224	42				
U06088_at	Human N-acetylglucosaminyl 6-sulphatase (GALNS) gene	116	72	208	69	224	42				
U06155_at	Human chromosome 1q subtelomeric sequence D15S53 "pB=U06155" retype=DNA/normal=CDS	116	72	208	69	224	42				
U06155_at	Human POU domain protein (Brl-3b) "mRNA", complete cds	116	72	208	69	224	42				
U06233_at	Human melanoma antigen recognized by T-cells (MART-1) mRNA	116	72	208	69	224	42				
U06452_at		116	72	208	69	224	42				



Expressed RNA in Subepithelial connective tissue, Normal urothelium and Transitional cell carcinomas											
U0661_1.at	Human AMP-activated protein kinase (AMPK) "mRNA", complete cds	20	20	20	20	20	20	20	20	20	20
U0661_2.at	Human (H338) "mRNA", complete cds	20	20	20	20	20	20	20	20	20	20
U0661_3.at	Human p60-coilin "mRNA", complete cds	20	20	20	20	20	20	20	20	20	20
U0661_4.at	Human clone CCA12 mRNA containing CCA trinucleotide repeat	20	20	20	20	20	20	20	20	20	20
U0661_5.at	Human neuronal kinesin heavy chain "mRNA", complete cds	20	20	20	20	20	20	20	20	20	20
U0661_6.at	Human folliculin-related protein precursor "mRNA", complete cds	20	20	20	20	20	20	20	20	20	20
U0661_7.at	Human breastpoint cluster region (BCR) gene, complete cds	20	20	20	20	20	20	20	20	20	20
U0661_8.at	Human steroid hormone receptor NHR1 "mRNA", complete cds	20	20	20	20	20	20	20	20	20	20
U0661_9.at	Human voltage-gated calcium channel beta subunit "mRNA", complete cds	20	20	20	20	20	20	20	20	20	20
U0661_10.at	Human GTP binding protein (ARL3) "mRNA", complete cds	20	20	20	20	20	20	20	20	20	20
U0661_11.at	Human tyrosinase "mRNA", complete cds	20	20	20	20	20	20	20	20	20	20
U0661_12.at	Human beta2-chimerin "mRNA", complete cds	20	20	20	20	20	20	20	20	20	20
U0661_13.at	Human P2U histidine receptor "mRNA", complete cds	20	20	20	20	20	20	20	20	20	20
U0661_14.at	Human G-rich sequence factor-1 (GRSF1) "mRNA", complete cds	20	20	20	20	20	20	20	20	20	20
U0661_15.at	Human B-lymphocyte secretory protein kinase "mRNA", complete cds	20	20	20	20	20	20	20	20	20	20
U0661_16.at	Human protein kinase (PK) "mRNA", complete cds	20	20	20	20	20	20	20	20	20	20
U0661_17.at	Human DNA mismatch repair (MMR) "mRNA", complete cds	20	20	20	20	20	20	20	20	20	20
U0661_18.at	Human putative RNA synthetase-like protein "mRNA", complete cds	20	20	20	20	20	20	20	20	20	20
U0661_19.at	Human chaperonin 10 "mRNA", complete cds	20	20	20	20	20	20	20	20	20	20
U0661_20.at	Human ICL-1 (Ikar-1) "mRNA", complete cds	20	20	20	20	20	20	20	20	20	20
U0661_21.at	Human proto-oncogene tyrosine-protein kinase (ABL) gene, exon 1a and exons 2-10, complete cds	20	20	20	20	20	20	20	20	20	20
U0661_22.at	Human MAP kinase "mRNA", complete cds	20	20	20	20	20	20	20	20	20	20
U0661_23.at	Human HBB homeobox gene	20	20	20	20	20	20	20	20	20	20
U0661_24.at	Human NAQ(H)-specific isocitrate dehydrogenase alpha subunit precursor "mRNA", complete cds	20	20	20	20	20	20	20	20	20	20
U0661_25.at	Human tyrosine kinase (HTK) "mRNA", complete cds	20	20	20	20	20	20	20	20	20	20
U0661_26.at	Human tyrosine kinase (TK) gene, exon 12 and 13, partial cds	20	20	20	20	20	20	20	20	20	20
U0661_27.at	Human Tnfr1d "gene", complete cds	20	20	20	20	20	20	20	20	20	20
U0661_28.at	Human DNA topoisomerase I "mRNA", partial cds	20	20	20	20	20	20	20	20	20	20
U0661_29.at	Human campophelin related clone CEMC2 DNA topoisomerase I "mRNA", partial cds	20	20	20	20	20	20	20	20	20	20
U0661_30.at	Human mitochondrial protein IV (MTIV) "gene", complete cds	20	20	20	20	20	20	20	20	20	20
U0661_31.at	Human endogenous retrovirus in complement C3A "gene", A3 "allele", HERV-K(C4) "(gag)", "(pol)", reverse transcriptase, integrase and	20	20	20	20	20	20	20	20	20	20
U0661_32.at	Human 18 kDa AII RNA binding protein "mRNA", complete cds	20	20	20	20	20	20	20	20	20	20
U0661_33.at	Human delta opioid receptor "mRNA", complete cds	20	20	20	20	20	20	20	20	20	20
U0661_34.at	Human aldehyde dehydrogenase 8 "mRNA", complete cds	20	20	20	20	20	20	20	20	20	20
U0661_35.at	Human intestinal peptide-associated transporter HPT-1 "mRNA", complete cds	20	20	20	20	20	20	20	20	20	20
U0661_36.at	Human complement 8 alpha subunit (C8A) gene	20	20	20	20	20	20	20	20	20	20
U0661_37.at	Human NF-ATC "mRNA", complete cds	20	20	20	20	20	20	20	20	20	20
U0661_38.at	Human nicotinamide N-methyltransferase (NNMT) "mRNA", complete cds	20	20	20	20	20	20	20	20	20	20
U0661_39.at	Human cellular proto-oncogene (c-myc) "mRNA", complete cds	20	20	20	20	20	20	20	20	20	20
U0661_40.at	Human peripheral myelin protein-22 (PMP22) "gene", non-coding exon 1A, /gb=U08049 /mtype=DNA /annot=exon	20	20	20	20	20	20	20	20	20	20
U0661_41.at	Human peripheral myelin protein-22 (PMP22) "gene", non-coding exon 1B, /gb=U08050 /mtype=DNA /annot=exon	20	20	20	20	20	20	20	20	20	20
U0661_42.at	Human R lapin B "mRNA", complete cds	20	20	20	20	20	20	20	20	20	20
U0661_43.at	Human complement C3 gamma subunit precursor (C3G) gene, complete cds	20	20	20	20	20	20	20	20	20	20
U0661_44.at	Human insulin-stimulated protein kinase 1 (ISPK-1) "mRNA", complete cds	20	20	20	20	20	20	20	20	20	20
U0661_45.at	Human basic helix-loop-helix transcription factor "mRNA", complete cds	20	20	20	20	20	20	20	20	20	20
U0661_46.at	Human homolog of Drosophila splicing regulator suppressor of white-5 (SWS5) "mRNA", complete cds	20	20	20	20	20	20	20	20	20	20
U0661_47.at	Human beta-actin "mRNA", complete cds	20	20	20	20	20	20	20	20	20	20
U0661_48.at	Human beta-actin "mRNA", complete cds	20	20	20	20	20	20	20	20	20	20
U0661_49.at	Human insulin receptor 3 "mRNA", complete cds	20	20	20	20	20	20	20	20	20	20
U0661_50.at	Human glucocorticoid receptor (GR) "mRNA", complete cds	20	20	20	20	20	20	20	20	20	20
U0661_51.at	Human UOP glucocorticoid receptor precursor (UOP2915) "mRNA", complete cds	20	20	20	20	20	20	20	20	20	20
U0661_52.at	Human glutamate transporter "mRNA", complete cds	20	20	20	20	20	20	20	20	20	20
U0661_53.at	Human TLR RNA binding protein 2 (TRBP2) "mRNA", complete cds	20	20	20	20	20	20	20	20	20	20
U0661_54.at	Human N-methyl-D-aspartate receptor modulatory subunit 2A (NMR2A) "mRNA", complete cds	20	20	20	20	20	20	20	20	20	20
U0661_55.at	Human phospholipase C delta 1 "mRNA", complete cds	20	20	20	20	20	20	20	20	20	20
U0661_56.at	Human dihydropyrimidine dehydrogenase "mRNA", complete cds	20	20	20	20	20	20	20	20	20	20
U0661_57.at	Human 1.1 kb mRNA upregulated in retinoid acid treated HL-60 neutrophilic cells	20	20	20	20	20	20	20	20	20	20
U0661_58.at	Human vesicular acetylcholine transporter "mRNA", complete cds	20	20	20	20	20	20	20	20	20	20
U0661_59.at	Human vesicular acetylcholine transporter "mRNA", complete cds	20	20	20	20	20	20	20	20	20	20
U0661_60.at	Human type XIX collagen (COL19A1) "mRNA", partial cds	20	20	20	20	20	20	20	20	20	20
U0661_61.at	Human PINCH protein "mRNA", complete cds	20	20	20	20	20	20	20	20	20	20
U0661_62.at	Human I cell leukemia LERK-2 (EPLG2) "mRNA", complete cds	20	20	20	20	20	20	20	20	20	20
U0661_63.at	Human zinc finger protein ZNF133	20	20	20	20	20	20	20	20	20	20
U0661_64.at	Human zinc finger protein ZNF130	20	20	20	20	20	20	20	20	20	20
U0661_65.at	Human zinc finger protein ZNF140	20	20	20	20	20	20	20	20	20	20
U0661_66.at	Human zinc finger protein ZNF131 "mRNA", partial cds	20	20	20	20	20	20	20	20	20	20
U0661_67.at	Human zinc finger protein ZNF131 "mRNA", partial cds	20	20	20	20	20	20	20	20	20	20

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Accession	Gene	Chromosome	Start	End	Strand	Size	GC	GC3	GC3+5	GC3-5	GC3-10	GC3-15	GC3-20	GC3-25	GC3-30	GC3-35	GC3-40	GC3-45	GC3-50	GC3-55	GC3-60	GC3-65	GC3-70	GC3-75	GC3-80	GC3-85	GC3-90	GC3-95	GC3-100	GC3-105	GC3-110	GC3-115	GC3-120	GC3-125	GC3-130	GC3-135	GC3-140	GC3-145	GC3-150	GC3-155	GC3-160	GC3-165	GC3-170	GC3-175	GC3-180	GC3-185	GC3-190	GC3-195	GC3-200	GC3-205	GC3-210	GC3-215	GC3-220	GC3-225	GC3-230	GC3-235	GC3-240	GC3-245	GC3-250	GC3-255	GC3-260	GC3-265	GC3-270	GC3-275	GC3-280	GC3-285	GC3-290	GC3-295	GC3-300	GC3-305	GC3-310	GC3-315	GC3-320	GC3-325	GC3-330	GC3-335	GC3-340	GC3-345	GC3-350	GC3-355	GC3-360	GC3-365	GC3-370	GC3-375	GC3-380	GC3-385	GC3-390	GC3-395	GC3-400	GC3-405	GC3-410	GC3-415	GC3-420	GC3-425	GC3-430	GC3-435	GC3-440	GC3-445	GC3-450	GC3-455	GC3-460	GC3-465	GC3-470	GC3-475	GC3-480	GC3-485	GC3-490	GC3-495	GC3-500	GC3-505	GC3-510	GC3-515	GC3-520	GC3-525	GC3-530	GC3-535	GC3-540	GC3-545	GC3-550	GC3-555	GC3-560	GC3-565	GC3-570	GC3-575	GC3-580	GC3-585	GC3-590	GC3-595	GC3-600	GC3-605	GC3-610	GC3-615	GC3-620	GC3-625	GC3-630	GC3-635	GC3-640	GC3-645	GC3-650	GC3-655	GC3-660	GC3-665	GC3-670	GC3-675	GC3-680	GC3-685	GC3-690	GC3-695	GC3-700	GC3-705	GC3-710	GC3-715	GC3-720	GC3-725	GC3-730	GC3-735	GC3-740	GC3-745	GC3-750	GC3-755	GC3-760	GC3-765	GC3-770	GC3-775	GC3-780	GC3-785	GC3-790	GC3-795	GC3-800	GC3-805	GC3-810	GC3-815	GC3-820	GC3-825	GC3-830	GC3-835	GC3-840	GC3-845	GC3-850	GC3-855	GC3-860	GC3-865	GC3-870	GC3-875	GC3-880	GC3-885	GC3-890	GC3-895	GC3-900	GC3-905	GC3-910	GC3-915	GC3-920	GC3-925	GC3-930	GC3-935	GC3-940	GC3-945	GC3-950	GC3-955	GC3-960	GC3-965	GC3-970	GC3-975	GC3-980	GC3-985	GC3-990	GC3-995	GC3-1000	GC3-1005	GC3-1010	GC3-1015	GC3-1020	GC3-1025	GC3-1030	GC3-1035	GC3-1040	GC3-1045	GC3-1050	GC3-1055	GC3-1060	GC3-1065	GC3-1070	GC3-1075	GC3-1080	GC3-1085	GC3-1090	GC3-1095	GC3-1100	GC3-1105	GC3-1110	GC3-1115	GC3-1120	GC3-1125	GC3-1130	GC3-1135	GC3-1140	GC3-1145	GC3-1150	GC3-1155	GC3-1160	GC3-1165	GC3-1170	GC3-1175	GC3-1180	GC3-1185	GC3-1190	GC3-1195	GC3-1200	GC3-1205	GC3-1210	GC3-1215	GC3-1220	GC3-1225	GC3-1230	GC3-1235	GC3-1240	GC3-1245	GC3-1250	GC3-1255	GC3-1260	GC3-1265	GC3-1270	GC3-1275	GC3-1280	GC3-1285	GC3-1290	GC3-1295	GC3-1300	GC3-1305	GC3-1310	GC3-1315	GC3-1320	GC3-1325	GC3-1330	GC3-1335	GC3-1340	GC3-1345	GC3-1350	GC3-1355	GC3-1360	GC3-1365	GC3-1370	GC3-1375	GC3-1380	GC3-1385	GC3-1390	GC3-1395	GC3-1400	GC3-1405	GC3-1410	GC3-1415	GC3-1420	GC3-1425	GC3-1430	GC3-1435	GC3-1440	GC3-1445	GC3-1450	GC3-1455	GC3-1460	GC3-1465	GC3-1470	GC3-1475	GC3-1480	GC3-1485	GC3-1490	GC3-1495	GC3-1500	GC3-1505	GC3-1510	GC3-1515	GC3-1520	GC3-1525	GC3-1530	GC3-1535	GC3-1540	GC3-1545	GC3-1550	GC3-1555	GC3-1560	GC3-1565	GC3-1570	GC3-1575	GC3-1580	GC3-1585	GC3-1590	GC3-1595	GC3-1600	GC3-1605	GC3-1610	GC3-1615	GC3-1620	GC3-1625
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Expressed RNA in Subcutaneous connective tissue, Normal umbilium and Transitional cell carcinoma		437		484		1722		728		418		385	
Human microsomal glutathione transferase (GSTI2) "gene", 5' sequence		437		484		1722		728		418		385	
Human equippin-5 (AQP5) gene		31		20		20		31		70		51	
Human tetrapeptide repeat protein (tp1) "mRNA", complete cds		347		550		348		301		851		433	
Human tetrapeptide repeat protein (tp2) "mRNA", complete cds		92		84		67		20		138		101	
Human microsome aldehyde dehydrogenase (ALD10) "mRNA", complete cds		46		20		20		20		99		142	
Human cystatin B gene, complete cds		10030		746		1958		1434		1181		1078	
Human dynabrevin-alpha "mRNA", complete cds		20		20		20		20		20		20	
Human dynabrevin-epsilon "mRNA", complete cds		20		21		20		20		20		20	
Human phosphotyrosine independent ligand p62 for the Lck SH2 domain "mRNA", complete cds		619		644		757		723		324		515	
Human phosphotyrosine independent ligand p62B B-cell isoform for the Lck SH2 domain "mRNA", partial cds		33		76		20		20		176		20	
Human myocyte chemotactic protein-1 precursor (MCP-1) "mRNA", complete cds		20		28		20		20		45		20	
Human NACP gene		23		122		20		121		180		75	
Human transcriptional repressor (NAB1) NAB1 "mRNA", complete cds		20		20		20		38		102		20	
Human fibroblast growth factor 8 (FGF8) gene, exon 3 and complete cds		20		20		20		20		20		20	
Human fetal brain glycogen phosphorylase B "mRNA", complete cds		20		148		268		176		188		93	
Human putative calcium entry channel (hPCP) "mRNA", complete cds		20		20		26		20		20		20	
Human putative mono-ADP-ribosyltransferase (HART1) "mRNA", complete cds		20		76		67		20		20		20	
Human DNA-dependent protein kinase catalytic subunit (DNA-PKcs) "mRNA", complete cds		20		20		20		20		20		20	
Human NDU-like protein (NDU) "mRNA", partial cds		138		56		334		83		45		69	
Human H105a3 "mRNA", complete cds		142		298		65		67		140		181	
Human spasmodic polypeptide (SP) "gene", 5' region and		20		20		37		20		20		23	
Human gamma aminobutyric acid receptor beta4 subunit-like "mRNA", partial cds, /gb-U47334 intype-RNA		20		90		20		20		91		64	
Human cyclin G2 "mRNA", complete cds		55		87		153		51		74		20	
Human nuclear autoantigen No55 "mRNA", complete cds		99		73		20		46		20		20	
Human beta-subunit class III isotype (beta-3) "mRNA", complete cds		73		71		20		116		37		20	
Human D13S82AE locus III isotype (beta-3) "mRNA", complete cds		60		20		40		20		20		20	
Human transcription factor E2F1 (E2F1) "gene", promoter and		20		20		20		20		20		20	
Human signal transducer and activator of transcription Stat5B "mRNA", complete cds		20		20		20		20		20		20	
Human monocytic leukemia zinc finger protein (MOZ) "mRNA", complete cds		108		148		156		20		317		186	
Human unknown protein B "mRNA", complete cds		65		112		43		22		149		52	
Human isoprenoidase 1 (ISOT) "mRNA", complete cds		20		31		20		20		20		20	
Human protein A alternatively spliced form 2 (A-2) "mRNA", complete cds		203		328		168		249		489		356	
Human G-protein beta-3 subunit alternatively spliced form "mRNA" sequence, /gb-U47931 intype-RNA		98		20		20		20		20		20	
Human D-like binding protein "gene", promoter region and		80		98		20		20		57		20	
Human bryostatin B1 receptor (BDKRB1) "gene", first		20		20		20		20		20		20	
Human protein kinase C-binding protein RACK17 "mRNA", partial cds		20		20		43		20		20		122	
Human protein kinase C-binding protein RACK7 "mRNA", partial cds		97		132		201		128		590		226	
Human pre-pro-orphain FQ (OFO) "mRNA", complete cds		66		82		70		55		109		20	
Human protein tyrosine phosphatase PTPCAAX1 (PTPCAAX1) "mRNA", complete cds		124		179		20		168		194		357	
Human kidney water channel (PKID) "mRNA", complete cds		155		174		70		158		223		190	
Human flag-tagged X mental retardation protein FMR2p (FMR2) "mRNA", complete cds		24		20		59		26		159		32	
Human amyloid precursor-like protein 1 "mRNA", complete cds		93		153		97		84		157		173	
Human marker-like element-containing "mRNA", clone PCSMT2		20		20		20		20		20		20	
Human receptor tyrosine kinase DDR "gene", complete cds		327		610		1344		1490		644		424	
Human protein phosphatase-1 inhibitor "mRNA", complete cds		50		34		20		47		20		46	
Human transcription factor Stat5b (Stat5b) "mRNA", complete cds		20		20		20		20		20		20	
Human kinase phosphatase protein kinase Bpp in (ppkin) "mRNA", complete cds		26		20		34		20		22		20	
Human beta 4 isozyme phosphatase (beta-4) "mRNA", complete cds		31		52		41		66		719		525	
Human CREB epsilon (CREBE) "gene", complete cds		20		20		20		20		20		20	
Human antitumor-sensitive epithelial sodium channel gamma subunit "mRNA", 5' end, partial cds, /gb-U48938 intype-RNA		368		196		20		20		432		546	
MEF2A gene (myocyte-specific enhancer factor "2A", C9 form) extracted from Human myocyte-specific enhancer factor 2A (MEF2A) "ge		621		131		20		20		20		20	
Human myosin light chain kinase (MLCK) "mRNA", complete cds		24		48		33		45		20		20	
Human interleukin-1 receptor-related protein "mRNA", complete cds, /gb-U48085 intype-RNA		81		20		20		55		37		20	
Human papilloma virus P17 "mRNA", complete cds		135		105		32		49		249		126	
Human transporter protein (p17) "mRNA", complete cds		107		227		79		160		158		528	
Human neuroendocrine-dig (NE-dig) "mRNA", complete cds		84		96		79		91		228		103	
Human prothrombin convertase 5 precursor (PC5) "mRNA", partial cds		25		20		20		35		20		91	
Human placenta (DIT48) "mRNA", complete cds		163		105		210		146		181		65	
Human placental multispecific organic anion transporter (CMOAT1) "gene", complete cds		55		52		20		129		62		65	
Human putative cAMP-activated transcriptional regulator 1-Beta 1 (Tlx-1) "mRNA", complete cds		20		41		20		57		20		122	
Human neuronal phosphatase phosphatase (NPP) "mRNA", complete cds		59		62		20		20		161		167	
Human putative DNA-binding protein "mRNA", partial cds		115		81		20		170		25		127	
Human liver "2,4-dienoyl-CoA" reductase "mRNA", complete cds		20		111		20		20		20		50	
Human diacylglycerol kinase epsilon DGR "mRNA", complete cds		20		30		103		20		20		188	

Expressed RNA in Subepithelial connective tissue, Normal epithelium and Transitional cell carcinomas		210	212	144	126	503	551
Human ionotropic ATP receptor P2X <sub>5</sub> mRNA, complete cds		210	212	144	126	503	551
Human translation initiation factor 5 (eIF5) mRNA, complete cds		63	20	127	40	53	20
Human mitochondrial functional protein beta subunit mRNA, partial cds, gb-U4941 myope-RNA		35	20	91	31	336	71
Human serotonin 5-HT <sub>2C</sub> receptor mRNA, complete cds		20	20	20	20	20	25
Human rhodopsin gene, complete cds		20	20	20	20	63	20
Human O-dipeptidase autotransin mRNA, complete cds		178	256	278	237	169	225
Human YKL-39 precursor mRNA, complete cds		48	257	285	171	153	180
Human LIM protein MLP mRNA, complete cds		56	79	118	86	415	260
Human FRAP-related protein (FRP1) mRNA, complete cds		20	28	75	20	20	20
Human transcriptional activator (FRP1) mRNA, complete cds		41	71	41	44	80	20
Human ubiquitin gene, complete cds		2053	3081	6193	2498	1653	2471
Human TAK1 binding protein 1 (TAB1) mRNA, complete cds		20	20	20	26	20	20
Human LIM protein (LPP) mRNA, partial cds		26	61	20	44	20	29
Human Tigger1 transposable element, complete consensus sequence		26	120	91	40	165	48
Human Tigger1 transposable element, complete consensus sequence		20	20	36	24	20	41
Human Tigger2 transposable element, complete consensus sequence		28	25	20	20	20	20
Human Tigger2 transposable element, complete consensus sequence, gb-U49974 myope-DNA/annexin-CDS		20	29	63	105	259	162
Human GTP protein kinase gene, complete cds		20	27	84	60	41	80
Human guanine nucleotide exchange factor (GEF) mRNA, complete cds		160	243	399	278	750	278
Human histone deacetylase HD1 mRNA, complete cds		193	338	153	181	384	326
Human histone H4 synthase 1 (H4S1) gene, complete cds		20	20	20	20	20	20
Human type 2 neuropeptide Y receptor (NPY2R) gene, partial		106	97	90	117	161	43
Human adenosine kinase mRNA, complete cds		151	271	53	135	418	406
Human enhancer of zeste homolog 1 (EZH1) mRNA, complete cds		163	71	89	160	507	58
Human protein kinase C substrate BCK-H gene (PRKCSH)		163	59	20	68	124	238
Human procollagen C-proteinase (PCP-2) mRNA, complete cds		20	23	55	51	20	36
Human "calcium", calmodulin-dependent protein kinase II gamma mRNA, partial cds, gb-U50360 myope-RNA		20	20	20	20	92	20
Human "calcium", calmodulin-dependent protein kinase II delta mRNA, partial cds, gb-U50361 myope-RNA		23	23	20	20	45	20
Human retinoid acid-responsive protein (NR3A4) mRNA, complete cds		510	946	613	369	129	346
Human BRCA2 region, mRNA sequence CG037		37	41	20	20	20	20
Human BRCA2 region, mRNA sequence CG038		37	41	20	20	20	20
Human BRCA2 region, mRNA sequence CG039		37	203	129	96	161	92
Human BRCA2 region, mRNA sequence CG040		108	72	137	143	28	41
Human telomerase like protein 2 mRNA, complete cds		20	20	20	20	83	20
Human estrogen-inducible RNA-dependent protein kinase (PK) gene		20	20	20	20	20	20
Human branched chain alpha-ketacid dehydrogenase E1 beta subunit mRNA, complete cds		239	205	308	214	197	268
Human dynamin mRNA, complete cds		252	325	186	193	713	704
Human Na,K-ATPase gamma subunit mRNA, complete cds		20	20	20	20	84	20
Human neurogenic helix-loop-helix protein NEUROD (neuroD) gene, complete cds		42	20	73	60	20	20
Human G10 protein (g10) mRNA, partial cds		33	98	36	23	20	20
Human autosomal dominant polycystic kidney disease type II (PKD2) mRNA, complete cds		20	35	69	121	20	259
Human beta-tubulin homocysteine methyltransferase mRNA, complete cds		46	42	118	54	20	73
Human amyloid precursor protein-binding protein 1 mRNA, complete cds		20	87	90	63	122	209
Human infant brain unknown product mRNA, complete cds		20	20	20	20	20	20
Human DLX-2 (Dlx2) mRNA, complete cds		433	181	20	272	128	408
Human putative protein kinase C inhibitor (PKCI-1) mRNA, complete cds		20	20	20	20	20	77
Human Nucleoside N-methyltransferase gene, exon 1 and 5 flanking region, gb-U51010 myope-DNA/annexin		20	20	20	20	20	20
Human homeobox protein Cdx1 mRNA, complete cds		42	64	20	20	224	60
Human homeobox protein Cdx2 mRNA, complete cds		177	295	136	162	100	204
Human homeobox protein Cdx4 mRNA, complete cds		20	41	58	25	20	35
Human homeobox protein Cdx5 mRNA, complete cds		59	33	20	60	20	157
Human homeobox protein Cdx6 mRNA, complete cds		136	100	27	20	25	250
Human homeobox protein Cdx7 mRNA, complete cds		20	75	40	45	72	128
Human homeobox protein Cdx8 mRNA, complete cds		20	184	20	20	214	20
Human homeobox protein Cdx9 mRNA, complete cds		192	30	20	20	20	45
Human homeobox protein Cdx10 mRNA, complete cds		90	134	376	102	20	327
Human homeobox protein Cdx11 mRNA, complete cds		89	120	154	102	183	118
Human homeobox protein Cdx12 mRNA, complete cds		39	121	37	37	123	141
Human homeobox protein Cdx13 mRNA, complete cds		86	91	104	91	20	111
Human homeobox protein Cdx14 mRNA, complete cds		691	459	752	388	295	306
Human sodium/potassium-transporting ATPase beta-3 subunit mRNA, complete cds		20	20	28	20	65	20
Human sodium NHE2B2, complete sequence		56	20	20	150	20	20
Human cAMP binding protein 1 (SlitBP1) mRNA, partial cds		86	95	20	20	20	20
Human Colip complex autoantigen poligin-87 mRNA, complete cds		160	198	206	65	108	106
Human small acidic protein mRNA, complete cds		148	20	20	20	44	32
Human desmocollin-2 mRNA, 3' UTR		62	52	33	46	181	98
Human RasGAP-related protein (IQGAP2) mRNA, complete cds							

Accession	Gene	Chromosome	Start	End	Strand	Size	GC	GC3	GC4	GC5	GC6	GC7	GC8	GC9	GC10	GC11	GC12	GC13	GC14	GC15	GC16	GC17	GC18	GC19	GC20	GC21	GC22	GC23	GC24	GC25	GC26	GC27	GC28	GC29	GC30	GC31	GC32	GC33	GC34	GC35	GC36	GC37	GC38	GC39	GC40	GC41	GC42	GC43	GC44	GC45	GC46	GC47	GC48	GC49	GC50	GC51	GC52	GC53	GC54	GC55	GC56	GC57	GC58	GC59	GC60	GC61	GC62	GC63	GC64	GC65	GC66	GC67	GC68	GC69	GC70	GC71	GC72	GC73	GC74	GC75	GC76	GC77	GC78	GC79	GC80	GC81	GC82	GC83	GC84	GC85	GC86	GC87	GC88	GC89	GC90	GC91	GC92	GC93	GC94	GC95	GC96	GC97	GC98	GC99	GC100	GC101	GC102	GC103	GC104	GC105	GC106	GC107	GC108	GC109	GC110	GC111	GC112	GC113	GC114	GC115	GC116	GC117	GC118	GC119	GC120	GC121	GC122	GC123	GC124	GC125	GC126	GC127	GC128	GC129	GC130	GC131	GC132	GC133	GC134	GC135	GC136	GC137	GC138	GC139	GC140	GC141	GC142	GC143	GC144	GC145	GC146	GC147	GC148	GC149	GC150	GC151	GC152	GC153	GC154	GC155	GC156	GC157	GC158	GC159	GC160	GC161	GC162	GC163	GC164	GC165	GC166	GC167	GC168	GC169	GC170	GC171	GC172	GC173	GC174	GC175	GC176	GC177	GC178	GC179	GC180	GC181	GC182	GC183	GC184	GC185	GC186	GC187	GC188	GC189	GC190	GC191	GC192	GC193	GC194	GC195	GC196	GC197	GC198	GC199	GC200	GC201	GC202	GC203	GC204	GC205	GC206	GC207	GC208	GC209	GC210	GC211	GC212	GC213	GC214	GC215	GC216	GC217	GC218	GC219	GC220	GC221	GC222	GC223	GC224	GC225	GC226	GC227	GC228	GC229	GC230	GC231	GC232	GC233	GC234	GC235	GC236	GC237	GC238	GC239	GC240	GC241	GC242	GC243	GC244	GC245	GC246	GC247	GC248	GC249	GC250	GC251	GC252	GC253	GC254	GC255	GC256	GC257	GC258	GC259	GC260	GC261	GC262	GC263	GC264	GC265	GC266	GC267	GC268	GC269	GC270	GC271	GC272	GC273	GC274	GC275	GC276	GC277	GC278	GC279	GC280	GC281	GC282	GC283	GC284	GC285	GC286	GC287	GC288	GC289	GC290	GC291	GC292	GC293	GC294	GC295	GC296	GC297	GC298	GC299	GC300	GC301	GC302	GC303	GC304	GC305	GC306	GC307	GC308	GC309	GC310	GC311	GC312	GC313	GC314	GC315	GC316	GC317	GC318	GC319	GC320	GC321	GC322	GC323	GC324	GC325	GC326	GC327	GC328	GC329	GC330	GC331	GC332	GC333	GC334	GC335	GC336	GC337	GC338	GC339	GC340	GC341	GC342	GC343	GC344	GC345	GC346	GC347	GC348	GC349	GC350	GC351	GC352	GC353	GC354	GC355	GC356	GC357	GC358	GC359	GC360	GC361	GC362	GC363	GC364	GC365	GC366	GC367	GC368	GC369	GC370	GC371	GC372	GC373	GC374	GC375	GC376	GC377	GC378	GC379	GC380	GC381	GC382	GC383	GC384	GC385	GC386	GC387	GC388	GC389	GC390	GC391	GC392	GC393	GC394	GC395	GC396	GC397	GC398	GC399	GC400	GC401	GC402	GC403	GC404	GC405	GC406	GC407	GC408	GC409	GC410	GC411	GC412	GC413	GC414	GC415
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Expressed RNA in Suburothelial connective tissue, Normal urothelium and Transitional cell carcinomas									
U56976 at	Human catadion dependent phosphatidylserine PDE1B1 mRNA, complete cds	42	20	20	20	20	20	20	79
U56980 at	Human Plectin serine/threonine protein kinase PRK (p41) mRNA, complete cds	20	20	20	20	20	20	20	20
U57057 at	Human WD protein R10 mRNA, complete cds	26	31	20	20	20	20	20	58
U57092 at	Human small GTP-binding protein rab30 mRNA, complete cds	65	123	20	20	20	20	20	256
U57093 at	Human small GTP-binding protein rab27a mRNA, complete cds	70	20	20	20	20	20	20	44
U57094 at	Human small GTP-binding protein mRNA, complete cds	73	20	20	20	20	20	20	131
U57099 at	Human APEG-1 mRNA, complete cds	103	20	20	20	20	20	20	63
U57109 at	Human GCN5 (NCCNS) gene, complete cds	126	162	20	20	20	20	20	77
U57116 at	Human p300/CBP-associated factor (P/CAF) mRNA, complete cds	20	20	20	20	20	20	20	374
U57117 at	Human neurofilament triplet L protein mRNA, partial cds, gb=U57341 mype-RNA	20	124	20	20	20	20	20	20
U57118 at	Human neurofilament triplet L protein mRNA, partial cds, gb=U57341 mype-RNA	941	1344	20	20	20	20	20	455
U57119 at	Human neurofilament triplet L protein mRNA, partial cds, gb=U57341 mype-RNA	281	480	20	20	20	20	20	3223
U57120 at	Human myeloblastin myeloid leukemia factor 2 (MLF2) mRNA, complete cds	147	20	20	20	20	20	20	1644
U57121 at	Human sodium channel 1 (hBNC1) mRNA, complete cds	208	365	20	20	20	20	20	538
U57122 at	Human EPC-1 gene	20	20	20	20	20	20	20	277
U57123 at	Human SNF1-like protein kinase mRNA, partial cds, gb=U57452 mype-RNA	29	20	20	20	20	20	20	20
U57124 at	Human myosin I protein kinase (myosin) mRNA, complete cds	30	20	20	20	20	20	20	174
U57125 at	Human fatty acid binding protein FABP gene, complete cds	20	48	20	20	20	20	20	66
U57126 at	Human fetal brain cytochrome P450 (CYP11) mRNA, complete cds	20	20	20	20	20	20	20	52
U57127 at	Human retinylidene phosphatase GTPase regulator (RGR) mRNA, complete cds	33	69	20	20	20	20	20	33
U57128 at	Human S42-coiled-coil protein 5 (S42) mRNA, complete cds	70	66	20	20	20	20	20	53
U57129 at	Human Lysine-specific proteinase (LSP) mRNA, complete cds	131	150	20	20	20	20	20	71
U57130 at	Human zinc finger protein (ZFP-1) mRNA, complete cds	169	170	20	20	20	20	20	141
U57131 at	Human integral membrane protein CIL-5 mRNA, nuclear gene encoding mitochondrial protein, complete cds	20	20	20	20	20	20	20	20
U57132 at	Human fetal brain cytochrome P450 (CYP11) mRNA, complete cds	20	20	20	20	20	20	20	345
U57133 at	Human calcium ATPase isoform 3a mRNA, complete cds	20	20	20	20	20	20	20	119
U57134 at	Human myoglobin related protein 1 (MTMR1) gene, partial cds, gb=U58032 mype-DNA lamot-CDS	99	38	20	20	20	20	20	20
U57135 at	Human myoglobin related protein 2 (MTMR2) gene, partial cds, gb=U58033 mype-RNA	20	20	20	20	20	20	20	57
U57136 at	Human myoglobin related protein 3 (MTMR3) gene, partial cds, gb=U58034 mype-RNA	59	109	20	20	20	20	20	20
U57137 at	Human p167 mRNA, complete cds	48	118	20	20	20	20	20	33
U57138 at	Human metalloproteinase PRS1 mRNA, complete cds	165	305	20	20	20	20	20	107
U57139 at	Human Hs-cu-1 mRNA, complete cds	61	72	20	20	20	20	20	20
U57140 at	Human Hs-cu-4A mRNA, partial cds	20	20	20	20	20	20	20	20
U57141 at	Human Hs-cu-4B mRNA, partial cds	20	20	20	20	20	20	20	20
U57142 at	Human testis-specific protein (TSPV) mRNA, complete cds	125	119	20	20	20	20	20	178
U57143 at	Human butyrate-sensitive Na-X-2C cotransporter (NKCC2) mRNA, complete cds	20	20	20	20	20	20	20	20
U57144 at	Human placental delta serocytin mRNA, complete cds	20	20	20	20	20	20	20	101
U57145 at	Human Bcl2, p53 binding protein Bcl-2 mRNA, complete cds	20	20	20	20	20	20	20	43
U57146 at	Human breast epithelial antigen Bcl-2 mRNA, complete cds	20	20	20	20	20	20	20	142
U57147 at	Human huntingtin interacting protein (HIP2) mRNA, complete cds	20	20	20	20	20	20	20	149
U57148 at	Human unknown protein mRNA within the p53 locus, complete cds	20	20	20	20	20	20	20	20
U57149 at	ORF17-40 gene extracted from Human olfactory receptor gene cluster on chromosome 17, ORF17-228 and ORF17-40, complete cds, gb=U58032 mype-RNA	20	20	20	20	20	20	20	20
U57150 at	ORF17-40 gene extracted from Human olfactory receptor gene cluster on chromosome 17, ORF17-228 and ORF17-40, complete cds, gb=U58033 mype-RNA	20	20	20	20	20	20	20	20
U57151 at	Human neurogenic basic-helix-loop-helix protein (NeuroD2) gene, complete cds	142	174	20	20	20	20	20	170
U57152 at	Human ribosomal protein S28 mRNA, complete cds	20	20	20	20	20	20	20	224
U57153 at	Human Fx protein mRNA, complete cds	20	20	20	20	20	20	20	20
U57154 at	Human CQMP-gated cation channel beta subunit (CNGC2) mRNA, complete cds	20	20	20	20	20	20	20	223
U57155 at	Human putative outer mitochondrial membrane 34 kDa translocase hTOM34 mRNA, complete cds	20	20	20	20	20	20	20	1561
U57156 at	Human beta-A4 crystallin (CRYBA4) mRNA, complete cds	20	20	20	20	20	20	20	20
U57157 at	Human beta-A3A1 crystallin (CRYBA3A1) mRNA, partial cds	56	75	20	20	20	20	20	20
U57158 at	Human dermatan sulfate proteoglycan 3 (DSPG3) mRNA, complete cds	43	20	20	20	20	20	20	214
U57159 at	Human endodermal glycoprotein (EDA) mRNA, complete cds	20	20	20	20	20	20	20	60
U57160 at	Human Hs-cadherin mRNA, complete cds	51	154	20	20	20	20	20	20
U57161 at	Human steroid receptor coactivator-1 (SRC-1) mRNA, complete cds	153	146	20	20	20	20	20	98
U57162 at	Human nuclear factor (NF) mRNA, nuclear gene encoding mitochondrial protein, complete cds	88	70	20	20	20	20	20	101
U57163 at	Human DEAD-box protein p72 (P72) mRNA, complete cds	85	46	20	20	20	20	20	128
U57164 at	Human Smad1 mRNA, complete cds	20	20	20	20	20	20	20	20
U57165 at	Human Smad1 mRNA, complete cds	20	20	20	20	20	20	20	37
U57166 at	Human Hs mRNA, partial cds, and platelet glycoprotein Ib beta chain mRNA, complete cds	20	20	20	20	20	20	20	20
U57167 at	Human desferrioxamine (DFO) mRNA, complete cds	20	20	20	20	20	20	20	282
U57168 at	Human Sec7p-like protein (hSec7p) mRNA, partial cds	224	167	20	20	20	20	20	332
U57169 at	Human transcription factor, forkhead related activator 4 (FREAC-4) gene, complete cds	42	39	20	20	20	20	20	57
U57170 at	Human TRAF-interacting protein 1 (TRAF1) mRNA, complete cds	25	36	20	20	20	20	20	96
U57171 at	Human low-Mr GTP-binding protein (RAB31) mRNA, complete cds	37	20	20	20	20	20	20	20
U57172 at	Human low-Mr GTP-binding protein (RAB32) mRNA, partial cds	20	20	20	20	20	20	20	20



[illegible]

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Accession	Gene	Chromosome	Start	End	Strand	Size (bp)	Exons	Introns	Annotations
U63289	Human RNA-binding protein CUG-BP1	5	111,111,111	111,111,111	+	1,000	1	0	Human RNA-binding protein CUG-BP1
U63295	Human seven in absentia homolog	1	111,111,111	111,111,111	+	1,000	1	0	Human seven in absentia homolog
U63312	Human cosmid 111210C11-242E1	1	111,111,111	111,111,111	+	1,000	1	0	Human cosmid 111210C11-242E1
U63326	Human mdy homolog (MDYH)	1	111,111,111	111,111,111	+	1,000	1	0	Human mdy homolog (MDYH)
U63332	Human MHC Class I region	6	111,111,111	111,111,111	+	1,000	1	0	Human MHC Class I region
U63336	Human MHC Class I region	6	111,111,111	111,111,111	+	1,000	1	0	Human MHC Class I region
U63345	Human MHC Class I region	6	111,111,111	111,111,111	+	1,000	1	0	Human MHC Class I region
U63351	Human MHC Class I region	6	111,111,111	111,111,111	+	1,000	1	0	Human MHC Class I region
U63354	Human MHC Class I region	6	111,111,111	111,111,111	+	1,000	1	0	Human MHC Class I region
U63357	Human MHC Class I region	6	111,111,111	111,111,111	+	1,000	1	0	Human MHC Class I region
U63361	Human MHC Class I region	6	111,111,111	111,111,111	+	1,000	1	0	Human MHC Class I region
U63364	Human MHC Class I region	6	111,111,111	111,111,111	+	1,000	1	0	Human MHC Class I region
U63367	Human MHC Class I region	6	111,111,111	111,111,111	+	1,000	1	0	Human MHC Class I region
U63370	Human MHC Class I region	6	111,111,111	111,111,111	+	1,000	1	0	Human MHC Class I region
U63373	Human MHC Class I region	6	111,111,111	111,111,111	+	1,000	1	0	Human MHC Class I region
U63376	Human MHC Class I region	6	111,111,111	111,111,111	+	1,000	1	0	Human MHC Class I region
U63379	Human MHC Class I region	6	111,111,111	111,111,111	+	1,000	1	0	Human MHC Class I region
U63382	Human MHC Class I region	6	111,111,111	111,111,111	+	1,000	1	0	Human MHC Class I region
U63385	Human MHC Class I region	6	111,111,111	111,111,111	+	1,000	1	0	Human MHC Class I region
U63388	Human MHC Class I region	6	111,111,111	111,111,111	+	1,000	1	0	Human MHC Class I region
U63391	Human MHC Class I region	6	111,111,111	111,111,111	+	1,000	1	0	Human MHC Class I region
U63394	Human MHC Class I region	6	111,111,111	111,111,111	+	1,000	1	0	Human MHC Class I region
U63397	Human MHC Class I region	6	111,111,111	111,111,111	+	1,000	1	0	Human MHC Class I region
U63400	Human MHC Class I region	6	111,111,111	111,111,111	+	1,000	1	0	Human MHC Class I region
U63403	Human MHC Class I region	6	111,111,111	111,111,111	+	1,000	1	0	Human MHC Class I region
U63406	Human MHC Class I region	6	111,111,111	111,111,111	+	1,000	1	0	Human MHC Class I region
U63409	Human MHC Class I region	6	111,111,111	111,111,111	+	1,000	1	0	Human MHC Class I region
U63412	Human MHC Class I region	6	111,111,111	111,111,111	+	1,000	1	0	Human MHC Class I region
U63415	Human MHC Class I region	6	111,111,111	111,111,111	+	1,000	1	0	Human MHC Class I region
U63418	Human MHC Class I region	6	111,111,111	111,111,111	+	1,000	1	0	Human MHC Class I region
U63421	Human MHC Class I region	6	111,111,111	111,111,111	+	1,000	1	0	Human MHC Class I region
U63424	Human MHC Class I region	6	111,111,111	111,111,111	+	1,000	1	0	Human MHC Class I region
U63427	Human MHC Class I region	6	111,111,111	111,111,111	+	1,000	1	0	Human MHC Class I region
U63430	Human MHC Class I region	6	111,111,111	111,111,111	+	1,000	1	0	Human MHC Class I region
U63433	Human MHC Class I region	6	111,111,111						

[illegible]

Gene Name	Accession Number	Length (bp)	Source
Human transportin (TRN) mRNA	U70322	151	Human
Human elastin-2 (SAC2) mRNA	U70323	56	Human
Human fundin expressed homodimer protein backfoot (B1) mRNA	U70324	381	Human
Human A2B-RGS 14p mRNA	U70325	113	Human
Human silver-stainable protein SSP-29 mRNA	U70326	397	Human
Human silver-stainable protein SSP-29 mRNA	U70327	397	Human
Human myosin differentiation primary response protein MyD88 mRNA	U70328	164	Human
Human myosin differentiation primary response protein MyD88 mRNA	U70329	164	Human
Human copper transport protein MAH1 (MAH1) mRNA	U70330	130	Human
Human zinc finger transcription factor HEZF (EZF) mRNA	U70331	197	Human
Human zinc finger transcription factor HEZF (EZF) mRNA	U70332	197	Human
Human glutamate pyruvate transaminase (GPT) gene, complete cds	U70333	117	Human
Human glutamate pyruvate transaminase (GPT) gene, complete cds	U70334	117	Human
Human 34 kDa mox34 isoform mRNA	U70335	240	Human
Human nuclear factor (B3) mRNA	U70336	298	Human
Human nuclear factor (B3) mRNA	U70337	298	Human
Human prostaglandin transporter NPGT mRNA	U70338	212	Human
Human prostaglandin transporter NPGT mRNA	U70339	212	Human
Human interleukin-13 receptor mRNA	U70340	34	Human
Human interleukin-13 receptor mRNA	U70341	34	Human
Human GAP binding protein p200a (GAP) mRNA	U70342	27	Human
Human GAP binding protein p200a (GAP) mRNA	U70343	27	Human
Human MAP kinase kinase MEK5b mRNA	U70344	20	Human
Human MAP kinase kinase MEK5b mRNA	U70345	20	Human
Human MAP kinase kinase MEK5c mRNA	U70346	20	Human
Human MAP kinase kinase MEK5c mRNA	U70347	20	Human
Human bone-associated receptor-like protein (BLC) gene, complete cds	U70348	56	Human
Human bone-associated receptor-like protein (BLC) gene, complete cds	U70349	56	Human
Human eye tissue binding (Ebt1) mRNA	U70350	87	Human
Human eye tissue binding (Ebt1) mRNA	U70351	87	Human
Human alpha-actinin protein complex SMO subunit (SMO50) mRNA	U70352	53	Human
Human alpha-actinin protein complex SMO subunit (SMO50) mRNA	U70353	53	Human
Human beta-actinin protein complex SMO subunit (SMO50) mRNA	U70354	53	Human
Human beta-actinin protein complex SMO subunit (SMO50) mRNA	U70355	53	Human
Human beta-actinin protein complex SMO subunit (SMO50) mRNA	U70356	53	Human
Human beta-actinin protein complex SMO subunit (SMO50) mRNA	U70357	53	Human
Human beta-actinin protein complex SMO subunit (SMO50) mRNA	U70358	53	Human
Human beta-actinin protein complex SMO subunit (SMO50) mRNA	U70359	53	Human
Human beta-actinin protein complex SMO subunit (SMO50) mRNA	U70360	53	Human
Human beta-actinin protein complex SMO subunit (SMO50) mRNA	U70361	53	Human
Human beta-actinin protein complex SMO subunit (SMO50) mRNA	U70362	53	Human
Human beta-actinin protein complex SMO subunit (SMO50) mRNA	U70363	53	Human
Human beta-actinin protein complex SMO subunit (SMO50) mRNA	U70364	53	Human
Human beta-actinin protein complex SMO subunit (SMO50) mRNA	U70365	53	Human
Human beta-actinin protein complex SMO subunit (SMO50) mRNA	U70366	53	Human
Human beta-actinin protein complex SMO subunit (SMO50) mRNA	U70367	53	Human
Human beta-actinin protein complex SMO subunit (SMO50) mRNA	U70368	53	Human
Human beta-actinin protein complex SMO subunit (SMO50) mRNA	U70369	53	Human
Human beta-actinin protein complex SMO subunit (SMO50) mRNA	U70370	53	Human
Human beta-actinin protein complex SMO subunit (SMO50) mRNA	U70371	53	Human
Human beta-actinin protein complex SMO subunit (SMO50) mRNA	U70372	53	Human
Human beta-actinin protein complex SMO subunit (SMO50) mRNA	U70373	53	Human
Human beta-actinin protein complex SMO subunit (SMO50) mRNA	U70374	53	Human
Human beta-actinin protein complex SMO subunit (SMO50) mRNA	U70375	53	Human
Human beta-actinin protein complex SMO subunit (SMO50) mRNA	U70376	53	Human
Human beta-actinin protein complex SMO subunit (SMO50) mRNA	U70377	53	Human
Human beta-actinin protein complex SMO subunit (SMO50) mRNA	U70378	53	Human
Human beta-actinin protein complex SMO subunit (SMO50) mRNA	U70379	53	Human
Human beta-actinin protein complex SMO subunit (SMO50) mRNA	U70380	53	Human
Human beta-actinin protein complex SMO subunit (SMO50) mRNA	U70381	53	Human
Human beta-actinin protein complex SMO subunit (SMO50) mRNA	U70382	53	Human
Human beta-actinin protein complex SMO subunit (SMO50) mRNA	U70383	53	Human
Human beta-actinin protein complex SMO subunit (SMO50) mRNA	U70384	53	Human
Human beta-actinin protein complex SMO subunit (SMO50) mRNA	U70385	53	Human
Human beta-actinin protein complex SMO subunit (SMO50) mRNA	U70386	53	Human
Human beta-actinin protein complex SMO subunit (SMO50) mRNA	U70387	53	Human
Human beta-actinin protein complex SMO subunit (SMO50) mRNA	U70388	53	Human
Human beta-actinin protein complex SMO subunit (SMO50) mRNA	U70389	53	Human
Human beta-actinin protein complex SMO subunit (SMO50) mRNA	U70390	53	Human
Human beta-actinin protein complex SMO subunit (SMO50) mRNA	U70391	53	Human
Human beta-actinin protein complex SMO subunit (SMO50) mRNA	U70392	53	Human
Human beta-actinin protein complex SMO subunit (SMO50) mRNA	U70393	53	Human
Human beta-actinin protein complex SMO subunit (SMO50) mRNA	U70394	5	

[illegible]



	84	86	87	88	89	90	91	92	93	94	95	96	97	98	99	100	101	102	103	104	105	106	107	108	109	110	111	112	113	114	115	116	117	118	119	120	121	122	123	124	125	126	127	128	129	130	131	132	133	134	135	136	137	138	139	140	141	142	143	144	145	146	147	148	149	150	151	152	153	154	155	156	157	158	159	160	161	162	163	164	165	166	167	168	169	170	171	172	173	174	175	176	177	178	179	180	181	182	183	184	185	186	187	188	189	190	191	192	193	194	195	196	197	198	199	200	201	202	203	204	205	206	207	208	209	210	211	212	213	214	215	216	217	218	219	220	221	222	223	224	225	226	227	228	229	230	231	232	233	234	235	236	237	238	239	240	241	242	243	244	245	246	247	248	249	250	251	252	253	254	255	256	257	258	259	260	261	262	263	264	265	266	267	268	269	270	271	272	273	274	275	276	277	278	279	280	281	282	283	284	285	286	287	288	289	290	291	292	293	294	295	296	297	298	299	300	301	302	303	304	305	306	307	308	309	310	311	312	313	314	315	316	317	318	319	320	321	322	323	324	325	326	327	328	329	330	331	332	333	334	335	336	337	338	339	340	341	342	343	344	345	346	347	348	349	350	351	352	353	354	355	356	357	358	359	360	361	362	363	364	365	366	367	368	369	370	371	372	373	374	375	376	377	378	379	380	381	382	383	384	385	386	387	388	389	390	391	392	393	394	395	396	397	398	399	400	401	402	403	404	405	406	407	408	409	410	411	412	413	414	415	416	417	418	419	420	421	422	423	424	425	426	427	428	429	430	431	432	433	434	435	436	437	438	439	440	441	442	443	444	445	446	447	448	449	450	451	452	453	454	455	456	457	458	459	460	461	462	463	464	465	466	467	468	469	470	471	472	473	474	475	476	477	478	479	480	481	482	483	484	485	486	487	488	489	490	491	492	493	494	495	496	497	498	499	500	501	502	503	504	505	506	507	508	509	510	511	512	513	514	515	516	517	518	519	520	521	522	523	524	525	526	527	528	529	530	531	532	533	534	535	536	537	538	539	540	541	542	543	544	545	546	547	548	549	550	551	552	553	554	555	556	557	558	559	560	561	562	563	564	565	566	567	568	569	570	571	572	573	574	575	576	577	578	579	580	581	582	583	584	585	586	587	588	589	590	591	592	593	594	595	596
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Expressed RNA in Suburothelial connective tissue, Normal urothelium and Transitional cell carcinoma									
U94313 at	Human C1q/MBL/SPA receptor C1qR(p) "mRNA", complete cds.	163	20	20	20	20	20	20	20
U94365 at	Homo sapiens retinoid receptor (ROR) "mRNA", complete cds.	878	131	214	187	261	20	20	20
U94366 at	Human NADH-ubiquinone oxidoreductase MLRQ subunit "mRNA", complete cds.	27	559	377	599	377	20	20	20
U94782 at	Human uncoupling protein homolog (UCPH) "mRNA", complete cds.	27	158	138	189	224	20	20	20
U94787 at	Human WD repeat protein HAN1 "mRNA", complete cds. /gb=U94787.mtype=RNA	44	20	20	20	65	20	20	20
U94831 at	Human multipass transmembrane protein "mRNA", complete cds. /gb=U94831.mtype=RNA	71	55	136	198	144	20	20	20
U94832 at	Human KH type splicing regulatory protein KSRP "mRNA", complete cds.	39	115	141	152	87	20	20	20
U94836 at	Human ERROT 213-21 "mRNA", complete cds.	293	259	540	420	200	20	20	20
U94855 at	Human translation initiation factor 3 47 kDa subunit "mRNA", complete cds.	20	42	100	68	97	20	20	20
U95009 at	Human D9 upf1c variant A "mRNA", complete cds.	20	20	20	20	20	20	20	20
U95019 at	Human voltage-dependent calcium channel beta-3 subunit "mRNA", complete cds.	20	20	20	20	20	20	20	20
U95020 at	Human voltage-dependent calcium channel beta-4 subunit "mRNA", complete cds.	20	20	20	20	20	20	20	20
U95040 at	Human transcription factor 19 (TF19) "mRNA", complete cds.	189	219	460	565	439	20	20	20
U95090 at	Human chromosome 19 centromere (19 cent) "mRNA", complete cds.	20	20	20	20	20	20	20	20
U95826 at	Homo sapiens carboxy (C-terminus) and C-terminus (C-terminus) gene, partial cds. c	20	20	20	20	20	20	20	20
U95828 at	Homo sapiens carboxy (C-terminus) and C-terminus (C-terminus) gene, partial cds. c	20	20	20	20	20	20	20	20
U95740 at	Human chromosome 19p13.1 BAC clone C19H187SK-382G8 complete sequence.	20	20	20	20	20	20	20	20
U95740 at	Human chromosome 19p13.1 BAC clone C19H187SK-382G8 complete sequence.	20	20	20	20	20	20	20	20
U96094 at	Human chromosome 19p13.1 BAC clone C19H187SK-382G8 complete sequence.	20	20	20	20	20	20	20	20
U96113 at	Homo sapiens SLX4 "mRNA", complete cds.	62	34	60	75	30	20	20	20
U96114 at	Homo sapiens Nedd4-like ubiquitin-protein ligase WWP1 "mRNA", partial cds. /gb=U96113.mtype=RNA	78	20	84	103	30	20	20	20
U96115 at	Homo sapiens Nedd4-like ubiquitin-protein ligase WWP2 "mRNA", complete cds.	72	84	87	80	43	20	20	20
U96131 at	Homo sapiens WW domain-containing protein WWP3 "mRNA", partial cds. /gb=U96115.mtype=RNA	33	20	20	22	20	20	20	20
U96136 at	Homo sapiens HPV18 E1 protein binding protein "mRNA", complete cds. /gb=U96131.mtype=RNA	60	74	114	73	56	20	20	20
U96181 at	Human delta-carotene "mRNA", complete cds.	23	36	74	308	20	20	20	20
U96279 at	Human trophoblast hypoxia-regulated factor-5 (HRF-5) "mRNA", 3' end. /gb=U96191.mtype=RNA	27	20	20	20	20	20	20	20
U96769 at	Human chromosome 8 BAC clone C19H187SK-248 complete sequence.	27	20	20	20	20	20	20	20
U96781 at	Human chromosome 8 BAC clone C19H187SK-248 complete sequence.	49	61	74	36	20	20	20	20
U96781 at	Human chromosome 8 BAC clone C19H187SK-248 complete sequence.	37	25	70	20	20	20	20	20
U96815 at	Homo sapiens chondroectoderm gene, exon 3, and complete cds.	88	87	76	89	113	20	20	20
U96822 at	Human C22* ATPase of fast-twitch skeletal muscle sarcolemmal reticulum adult and neonatal isoforms (ATP2A1) gene, exon 16 to 23	128	44	200	183	57	20	20	20
U97016 at	Homo sapiens histidyl polyphosphatase 4-phosphatase type II alpha "mRNA", complete cds. /gb=U96822.mtype=RNA	22	20	20	20	20	20	20	20
U97105 at	Homo sapiens chondroectoderm microtubule-associated protein homolog HUEMAP "mRNA", complete cds.	111	49	25	30	20	20	20	20
U97188 at	Homo sapiens N2A3 "mRNA", complete cds.	20	20	20	20	20	20	20	20
U97502 at	Homo sapiens putative RNA binding protein KOC (KOC) "mRNA", complete cds.	20	20	20	20	20	20	20	20
V00532 at	Homo sapiens myopalladin (B13.3) gene, exon 10, and complete cds.	20	20	20	20	20	20	20	20
V00533 at	Human alpha-2(I) procollagen (alpha-2(I) procollagen) (major part)	20	20	20	20	20	20	20	20
V00535 at	Human alpha-2(I) procollagen (alpha-2(I) procollagen) (minor part)	20	20	20	20	20	20	20	20
V00536 at	Human alpha-2(I) procollagen (alpha-2(I) procollagen) (minor part)	20	20	20	20	20	20	20	20
V00542 at	Human alpha-2(I) procollagen (alpha-2(I) procollagen) (minor part)	20	20	20	20	20	20	20	20
V00551 at	Human alpha-2(I) procollagen (alpha-2(I) procollagen) (minor part)	20	20	20	20	20	20	20	20
V00563 at	Human alpha-2(I) procollagen (alpha-2(I) procollagen) (minor part)	20	20	20	20	20	20	20	20
V00565 at	Human alpha-2(I) procollagen (alpha-2(I) procollagen) (minor part)	20	20	20	20	20	20	20	20
V00571 at	Human alpha-2(I) procollagen (alpha-2(I) procollagen) (minor part)	20	20	20	20	20	20	20	20
V00572 at	Human alpha-2(I) procollagen (alpha-2(I) procollagen) (minor part)	20	20	20	20	20	20	20	20
V00574 at	Human alpha-2(I) procollagen (alpha-2(I) procollagen) (minor part)	20	20	20	20	20	20	20	20
V00584 at	Human alpha-2(I) procollagen (alpha-2(I) procollagen) (minor part)	20	20	20	20	20	20	20	20
V00585 at	Human alpha-2(I) procollagen (alpha-2(I) procollagen) (minor part)	20	20	20	20	20	20	20	20
V01510 at	Human alpha-2(I) procollagen (alpha-2(I) procollagen) (minor part)	20	20	20	20	20	20	20	20
V01512 at	Human alpha-2(I) procollagen (alpha-2(I) procollagen) (minor part)	20	20	20	20	20	20	20	20
V01514 at	Human alpha-2(I) procollagen (alpha-2(I) procollagen) (minor part)	20	20	20	20	20	20	20	20
V01515 at	Human alpha-2(I) procollagen (alpha-2(I) procollagen) (minor part)	20	20	20	20	20	20	20	20
V01516 at	Human alpha-2(I) procollagen (alpha-2(I) procollagen) (minor part)	20	20	20	20	20	20	20	20
X00039 at	Human alpha-2(I) procollagen (alpha-2(I) procollagen) (minor part)	20	20	20	20	20	20	20	20
X00088 at	Human alpha-2(I) procollagen (alpha-2(I) procollagen) (minor part)	20	20	20	20	20	20	20	20
X00090 at	Human alpha-2(I) procollagen (alpha-2(I) procollagen) (minor part)	20	20	20	20	20	20	20	20
X00129 at	Human alpha-2(I) procollagen (alpha-2(I) procollagen) (minor part)	20	20	20	20	20	20	20	20
X00237 at	Human alpha-2(I) procollagen (alpha-2(I) procollagen) (minor part)	20	20	20	20	20	20	20	20
X00274 at	Human alpha-2(I) procollagen (alpha-2(I) procollagen) (minor part)	20	20	20	20	20	20	20	20
X00351 at	Human alpha-2(I) procollagen (alpha-2(I) procollagen) (minor part)	20	20	20	20	20	20	20	20
X00368 at	Human alpha-2(I) procollagen (alpha-2(I) procollagen) (minor part)	20	20	20	20	20	20	20	20
X00371 at	Human alpha-2(I) procollagen (alpha-2(I) procollagen) (minor part)	20	20	20	20	20	20	20	20
X00437 at	Human alpha-2(I) procollagen (alpha-2(I) procollagen) (minor part)	20	20	20	20	20	20	20	20
X00440 at	Human alpha-2(I) procollagen (alpha-2(I) procollagen) (minor part)	20	20	20	20	20	20	20	20
X00588 at	Human alpha-2(I) procollagen (alpha-2(I) procollagen) (minor part)	20	20	20	20	20	20	20	20





Expressed RNA in Subepithelial connective tissue, Normal urothelium and Transitional cell carcinoma

Human mRNA for metalloproteinase stromelysin-2 X07820 at	30	24	73	21	81
Human mRNA for manganese superoxide dismutase (EC 1.15.1.1) X07834 at	24	20	20	20	20
Human mRNA for lip protein (int-1 related protein) X07876 at	23	20	20	20	29
Human mRNA for transition protein 1 (TP1) X07948 at	44	56	71	50	81
Human mRNA for fibronectin receptor beta subunit X07976 at	543	484	832	591	253
Human mRNA for lactate-phlorizin hydrolase LPH (EC 3.2.1.23-82) X07994 at	20	20	20	20	20
Human pHS-1-2 mRNA with ORF homologous to membrane receptor proteins X12433 at	70	75	101	85	126
Human adenosine A gene (EC 4.1.2.13) X12447 at	1127	797	1883	2864	1801
Human mRNA for pro-cathepsin L (major secreted protein MEP) X12453 at	118	135	93	74	194
Human mRNA for retinal S-antigen (48 KDa protein) X12459 at	20	20	20	20	20
Human P3 gene X12459 mas at	66	65	85	112	217
Human mRNA for CAAT-box binding transcription factor CTF-1 (syn. CTF/NFI or CTF or NF-4 or NF-1) X12497 at	150	162	149	131	252
Human mRNA for U1 small nuclear RNP-specific C protein X12517 at	20	20	20	20	20
Human mRNA for B lymphocyte antigen CD20 (B1, B35) X12520 at	23	86	20	20	20
Human mRNA for alpha-proteinase inhibitor alpha-1 (A1PI) (EC 3.4.21.1) X12588 at	20	20	20	20	20
H sapiens telomerase gene exon 1 and flanking regions (EC 3.5.3.1) (and joined CDS) X12602 mas at	20	20	20	20	20
Prnp A1 protein genes extracted from Human brain for heterogeneous nuclear ribonucleoprotein (hnRNP) core protein A1 X12671 mas at	592	91	1762	1893	112
Human mRNA for 18kD protein of signal recognition particle (SRP) X12719 at	136	137	134	110	33
Human verba related ear-2 gene X12719 at	136	137	134	110	33
Human mRNA for villin X12813 at	20	20	20	20	20
Human and "beta"NA, YPT1-related and member of ras family. X12813 at	20	20	20	20	20
Human mRNA fragment for myosin heavy chain X1301 O mas at	108	69	28	132	20
Human mRNA for D-amino acid oxidase (EC 1.4.3.3) X1327 at	41	20	51	36	20
Human mRNA for cytochrome c oxidase subunit VIc X13238 at	563	339	399	560	285
Human mRNA for dopamine beta-hydroxylase type a (EC 1.14.17.1) X13293 at	20	20	20	20	20
Human mRNA for B-myp gene X13303 at	20	20	20	20	20
Human CD14 mRNA for myeloid cell-specific leucine-rich glycoprotein X13444 at	20	20	20	20	20
Human mRNA for CD8 beta-chain glycoprotein (CD8 beta.1) X13451 at	241	152	223	151	246
H sapiens intronless calmodulin-like gene (CIP gene) for calmodulin-like protein X13451 at	20	20	20	20	20
Human mRNA for U2 snRNP specific A' protein X13451 at	296	20	20	20	20
Human hMG-17 gene for chromatin-associated protein HMG-17 X13451 at	54	41	74	89	43
Human mRNA for estradiol (estrogen synthetase) X13451 at	222	216	271	254	208
Human beta-casein mRNA 3'-terminal fragment X13451 at	20	20	20	20	20
H sapiens lacid dehydrogenase B gene exon 1 and 2 (EC 1.1.1.27) (and joined CDS) X13451 at	500	568	881	947	160
Human OTF-2 mRNA for lymphoid-specific transcription factor X13451 at	1405	801	201	74	1566
Human mRNA for vascular smooth muscle alpha-actin X13518 at	29	38	35	27	43
Human CYP2A4 mRNA for P-450 IIA4 protein X13500 at	94	113	253	127	204
Human mRNA for myosin alkali light chain X13585 at	20	20	20	20	20
Human 1S RNA induced by poly(I). poly(C) and Newcastle disease virus X13586 at	26	67	104	41	55
Human mRNA for leukemia inhibitory factor (LIF-MILDA) X13587 at	145	80	173	62	268
Human mRNA for fibronectin-binding protein (FBN) X13587 at	153	131	94	93	156
Human lysozyme gene (EC 3.2.1.17) X14008 mas at	602	1072	334	481	553
Human mRNA for leukocyte antigen CS37 X14045 at	63	63	31	20	42
H sapiens mRNA for beta-1,4-galactosyltransferase (EC 2.4.1.22) X14253 at	112	141	275	182	215
Human mRNA for cripto protein X14339 at	51	33	61	20	72
Human mRNA for cathepsin B N small subunit (EC 3.4.17.3) X14346 at	20	20	20	20	20
Human CR1 mRNA for complement C3b/C4b receptor associated form X14382 at	20	20	20	20	20
Human hH-3 gene for histone H3 X14445 at	68	21	20	20	20
Human G1 gene for E1pH-D-glucose-6-phosphate X14447 at	123	115	109	67	178
Human mRNA for beta-tubulin subunit 4 (EC 3.2.1.22) X14675 at	20	20	20	20	20
Human mRNA for La protein Chlamydia region X14680 at	130	60	116	378	188
Human mRNA for plasma inter-alpha-2(I)-glycanase X14766 at	20	20	20	20	20
Human mRNA for GABA-A receptor, alpha 1 subunit X14767 at	115	-91	226	123	180
Human mRNA for GABA-A receptor, beta 1 subunit X14767 at	155	20	20	20	20
Human mRNA for thioninopodinin X14787 at	20	20	20	20	20
H sapiens alpha-A crystallin gene exon 1, 2' and pseudogen X14789 at	60	30	30	30	61
Human liver mRNA for 3-oxoacyl-CoA thiolase X14813 at	20	20	20	20	20
Human mRNA for muscle acetylcholine receptor beta subunit X14830 at	20	20	20	20	20
Human H2A.X mRNA encoding histone H2A.X X14850 at	20	20	20	20	20
H sapiens gene for transforming growth factor-beta 3 (TGF-beta 3) exon 1 (and joined CDS) X14855 mas at	54	44	87	99	47
Human mRNA for myogenic factor Myf-5 X14894 at	20	20	20	20	20
Human testis mRNA for the RII-alpha subunit of CAMP dependent protein kinase X4950 at	20	20	20	20	20

[illegible]











Expressed RNA in Subepithelial connective tissue, Normal urothelium and Transitional cell carcinomas											
X03544_s1	H sapiens hsa-2 (FGF-6) mRNA	20	20	20	20	20	20	20	20	20	20
X03545_s1	H sapiens mRNA for transcription factor TFIIIE alpha	21	292	20	20	20	20	20	20	20	20
X03546_s1	H sapiens mRNA for transcription factor TFIIIE beta	21	68	20	20	20	20	20	20	20	20
X03547_s1	H sapiens mRNA DAUD16 for retinoic acid X receptor b	21	4339	20	20	20	20	20	20	20	20
X03548_s1	H sapiens mRNA for ribosomal protein L19	21	3755	20	20	20	20	20	20	20	20
X03549_s1	H sapiens mRNA for the oncogene (clone 210)	21	3282	20	20	20	20	20	20	20	20
X03550_s1	H sapiens mRNA for RNA polymerase II 140 kDa subunit	21	68	20	20	20	20	20	20	20	20
X03551_s1	H sapiens mRNA for plasma membrane calcium ATPase	21	20	20	20	20	20	20	20	20	20
X03552_s1	H sapiens gene for parvalbumin	21	20	20	20	20	20	20	20	20	20
X03553_s1	H sapiens a1 mRNA for succinate isomerase	21	20	20	20	20	20	20	20	20	20
X03554_s1	H sapiens mRNA for p-cadherin	21	20	20	20	20	20	20	20	20	20
X03555_s1	H sapiens M1 mRNA	21	20	20	20	20	20	20	20	20	20
X03556_s1	H sapiens mRNA for TRAMP protein	21	20	20	20	20	20	20	20	20	20
X03557_s1	H sapiens mRNA for DNA (cytosine-5)-methyltransferase	21	20	20	20	20	20	20	20	20	20
X03558_s1	H sapiens mRNA for APO-1 cell surface antigen	21	20	20	20	20	20	20	20	20	20
X03559_s1	H sapiens pi3d mRNA	21	20	20	20	20	20	20	20	20	20
X03560_s1	H sapiens hsa-4 mRNA	21	20	20	20	20	20	20	20	20	20
X03561_s1	H sapiens mRNA for high-sulphur keratin	21	20	20	20	20	20	20	20	20	20
X03562_s1	H sapiens NTSP2 gene for translation protein 2	21	20	20	20	20	20	20	20	20	20
X03563_s1	H sapiens mRNA for RNA polymerase II associated protein RAP74	21	20	20	20	20	20	20	20	20	20
X03564_s1	H sapiens mRNA for 14-3-3 zeta subunit of signaling factor U2AF	21	20	20	20	20	20	20	20	20	20
X03565_s1	H sapiens CD18 exon 2	21	20	20	20	20	20	20	20	20	20
X03566_s1	H sapiens mRNA for transferrin	21	20	20	20	20	20	20	20	20	20
X03567_s1	H sapiens gene MIT-1 for mitochondrial transcription factor 1	21	20	20	20	20	20	20	20	20	20
X03568_s1	H sapiens mRNA for AIP-cysteine lyase	21	20	20	20	20	20	20	20	20	20
X03569_s1	H sapiens mRNA for M6 antigen	21	20	20	20	20	20	20	20	20	20
X03570_s1	H sapiens mRNA for tetraenein	21	20	20	20	20	20	20	20	20	20
X03571_s1	H sapiens mRNA for 50 kDa erythrocyte plasma membrane glycoprotein	21	20	20	20	20	20	20	20	20	20
X03572_s1	H sapiens mRNA for RDC-1 POU domain containing protein	21	20	20	20	20	20	20	20	20	20
X03573_s1	H sapiens c6.1A mRNA	21	20	20	20	20	20	20	20	20	20
X03574_s1	H sapiens BCC1 mRNA	21	20	20	20	20	20	20	20	20	20
X03575_s1	H sapiens CHM1 mRNA	21	20	20	20	20	20	20	20	20	20
X03576_s1	H sapiens encoding PC1/PC3	21	20	20	20	20	20	20	20	20	20
X03577_s1	H sapiens mRNA for retin	21	20	20	20	20	20	20	20	20	20
X03578_s1	H sapiens mRNA for serum protein	21	20	20	20	20	20	20	20	20	20
X03579_s1	H sapiens mRNA for corylin receptor	21	20	20	20	20	20	20	20	20	20
X03580_s1	H sapiens HCAPO71 gene for olfactory receptor	21	20	20	20	20	20	20	20	20	20
X03581_s1	H sapiens mRNA for zinc-finger protein (ZNF117)	21	20	20	20	20	20	20	20	20	20
X03582_s1	H sapiens mRNA for protein kinase C-Epsilon	21	20	20	20	20	20	20	20	20	20
X03583_s1	H sapiens mRNA for MHC class I promoter binding protein	21	20	20	20	20	20	20	20	20	20
X03584_s1	H sapiens U21.1 mRNA	21	20	20	20	20	20	20	20	20	20
X03585_s1	H sapiens mi8.6 mRNA (long type) for antigen of monoclonal antibody Ki-67	21	20	20	20	20	20	20	20	20	20
X03586_s1	H sapiens ACTH4 gene for adrenocorticotrophic hormone receptor	21	20	20	20	20	20	20	20	20	20
X03587_s1	H sapiens mRNA MBP-2 for MHC binding protein 2	21	20	20	20	20	20	20	20	20	20
X03588_s1	H sapiens Scd-3 mRNA (hsp-X65565) type-RNA	21	20	20	20	20	20	20	20	20	20
X03589_s1	H sapiens CAR gene	21	20	20	20	20	20	20	20	20	20
X03590_s1	H sapiens D1A for ORF1 and ORF2 from chromosome X	21	20	20	20	20	20	20	20	20	20
X03591_s1	H sapiens GSTA1 gene (glutathione S-transferase) extracted from H. sapiens GSTA1 gene for glutathione S-transferase exon 2	21	20	20	20	20	20	20	20	20	20
X03592_s1	H sapiens HCAPO71E gene for olfactory receptor	21	20	20	20	20	20	20	20	20	20
X03593_s1	H sapiens mRNA for adenylosuccinate lyase	21	20	20	20	20	20	20	20	20	20
X03594_s1	H sapiens mRNA for Urease (heavy chain)	21	20	20	20	20	20	20	20	20	20
X03595_s1	H sapiens mRNA for cyclopropane P-450	21	20	20	20	20	20	20	20	20	20
X03596_s1	H sapiens SOD-2 gene for manganese superoxide dismutase (hsp-X65565) type-DNA (non-exon)	21	20	20	20	20	20	20	20	20	20
X03597_s1	H sapiens mRNA for collagen (p-4) C-terminal	21	20	20	20	20	20	20	20	20	20
X03598_s1	H sapiens Sp-13 mRNA	21	20	20	20	20	20	20	20	20	20
X03599_s1	H sapiens e-myo mRNA	21	20	20	20	20	20	20	20	20	20
X03600_s1	H sapiens mRNA for PwSc1 100kD nuclear protein	21	20	20	20	20	20	20	20	20	20
X03601_s1	H sapiens gene for 2-oxoglutarate carrier protein	21	20	20	20	20	20	20	20	20	20
X03602_s1	H sapiens mRNA for cardiac ventricular myosin light chain-2	21	20	20	20	20	20	20	20	20	20
X03603_s1	H sapiens mRNA for rod CGMP phosphodiesterase	21	20	20	20	20	20	20	20	20	20
X03604_s1	H sapiens CMRF35 "miRNA" complete CDS	21	20	20	20	20	20	20	20	20	20
X03605_s1	H sapiens mRNA for skeletal muscle C-protein	21	20	20	20	20	20	20	20	20	20
X03606_s1	H sapiens mRNA KKAALRE for serine/threonine protein kinase	21	20	20	20	20	20	20	20	20	20
X03607_s1	H sapiens mRNA PCTAIRE-2 for serine/threonine protein kinase	21	20	20	20	20	20	20	20	20	20

Expressed RNA in Subepithelial connective tissue, Normal urothelium and Transitional cell carcinomas									
X65382_at	H.sapiens mRNA PCTAIRE-3 for serine/threonine protein kinase	50	53	54	47	164	20		
X65383_at	H.sapiens mRNA PCTAIRE-1 for serine/threonine protein kinase	85	139	26	69	311	254		
X65384_at	H.sapiens mRNA PSSALRE for serine/threonine protein kinase	80	91	98	112	150	198		
X65385_at	H.sapiens mRNA PLSTIRE for serine/threonine protein kinase	25	20	45	31	30	36		
X65386_at	H.sapiens tp mRNA	62	92	130	111	98	69		
X65387_at	H.sapiens genes TAP-1, TAP2, LMP2, LMP7 and DOB	90	188	70	38	73	203		
X65388_at	H.sapiens mRNA for acetylcholine receptor (epsilon subunit)	41	32	25	32	25	20		
X65389_at	H.sapiens casK mRNA for kappa-casein	66	57	79	45	66	200		
X65390_at	H.sapiens hsr1 mRNA (partial)	51	128	159	76	136	243		
X65391_at	Human adenocarcinoma syndrome mRNA	20	42	56	52	20	31		
X65392_at	H.sapiens soluble guanylate cyclase small subunit mRNA	20	45	20	20	20	42		
X65393_at	H.sapiens soluble guanylate cyclase large subunit mRNA	20	27	20	20	20	20		
X65394_at	H.sapiens mRNA for enolase	105	408	588	286	926	274		
X65395_at	H.sapiens mRNA for transacylase (DBT)	32	88	101	140	163	161		
X65396_at	H.sapiens MaT1 MN mRNA for p54/SN protein	40	78	26	24	28	54		
X65397_at	H.sapiens max gene	20	78	64	48	112	54		
X65398_at	H.sapiens FACC mRNA from complementation group C (FAC)	35	30	165	77	20	51		
X65399_at	H.sapiens ENS mRNA	20	30	20	20	20	20		
X65400_at	H.sapiens mRNA for myo-inositol triphosphatase	59	33	20	20	20	20		
X65401_at	H.sapiens Hsami mRNA for fibroblast growth factor receptor	20	20	51	27	33	20		
X65402_at	H.sapiens Hsami gene	20	20	23	23	41	20		
X65403_at	H.sapiens R1S alpha mRNA containing four open reading frames	34	71	20	20	20	20		
X65404_at	H.sapiens R1S alpha mRNA containing four open reading frames	375	302	397	3818	1511	2083		
X65405_at	H.sapiens rps8 gene for ribosomal protein S8	102	194	64	20	20	20		
X65406_at	H.sapiens mRNA for proline rich homeobox (Prh) protein	27	20	20	20	20	20		
X65407_at	H.sapiens p27 mRNA	20	20	20	20	20	20		
X65408_at	H.sapiens HPBRII-4 mRNA	20	20	20	20	20	20		
X65409_at	H.sapiens gene for glutamate dehydrogenase	20	20	20	20	20	20		
X65410_at	H.sapiens mRNA for MSH receptor	20	20	20	20	20	20		
X65411_at	H.sapiens mRNA for keratin 4 (Kp-X67683) (myo-RNA)	2128	161	114	106	268	189		
X65412_at	H.sapiens HE2 mRNA	401	372	368	322	285	472		
X65413_at	H.sapiens tissue specific mRNA	20	20	20	20	20	20		
X65414_at	H.sapiens mRNA for transient axonal glycoprotein (tag-1)	1472	608	647	648	543	814		
X65415_at	H.sapiens mRNA for perlecan-associated gene (PAG)	20	20	20	20	20	20		
X65416_at	H.sapiens Fc-gammaR-beta gene for Fc gamma receptor class IA (511kDa) (p-X65690) (myo-DNA) (myo-DNA)	20	20	20	20	20	20		
X65417_at	H.sapiens BLR1 gene for Burtin's lymphing receptor 1	20	20	20	20	20	20		
X65418_at	H.sapiens h-Sp1 mRNA	42	31	124	101	20	21		
X65419_at	H.sapiens mRNA for Hsp-1	20	20	20	20	20	20		
X65420_at	H.sapiens MGF gene exons 1&2	20	20	20	20	20	20		
X65421_at	H.sapiens CL 100 mRNA for protein tyrosine phosphatase	1972	105	44	42	74	198		
X65422_at	H.sapiens mRNA for glyceral kinase	20	20	20	20	20	20		
X65423_at	H.sapiens mRNA for glutathione peroxidase-GI	390	739	734	1019	386	293		
X65424_at	H.sapiens mRNA for A2a adenosine receptor	134	121	145	117	41	77		
X65425_at	H.sapiens mRNA for A2b adenosine receptor	22	20	34	20	20	20		
X65426_at	H.sapiens SPR-2 mRNA for G1 box binding protein	78	55	51	25	20	20		
X65427_at	H.sapiens SPR-1 mRNA for G1 box binding protein	20	20	23	22	20	20		
X65428_at	H.sapiens ZNF338 gene	142	165	88	97	92	174		
X65429_at	H.sapiens gene for signal-activated tyrosinase, exon 1	20	20	20	20	20	20		
X65430_at	H.sapiens mRNA for "Tubulin" alpha subunit	27	20	24	21	21	21		
X65431_at	H.sapiens mRNA for S-adenosylmethionine synthetase	20	20	152	71	97	20		
X65432_at	H.sapiens CREB gene, exon Y	20	20	24	20	20	20		
X65433_at	H.sapiens mRNA for skeletal muscle 185D protein	20	20	20	20	20	20		
X65434_at	H.sapiens mRNA for skeletal muscle 190D protein	160	284	558	54	172	190		
X65435_at	H.sapiens PLH1 H121 mRNA for helix-loop-helix protein	20	90	98	71	154	32		
X65436_at	H.sapiens ZNF37A mRNA for zinc finger protein	20	20	32	20	20	20		
X65437_at	H.sapiens ZNF37A gene for zinc finger protein	20	20	20	20	20	20		
X65438_at	H.sapiens mRNA for squelone lyase	6256	104	89	135	28	85		
X65439_at	LOC432 H.sapiens mRNA for ribosomal protein S18	2084	2856	6975	6995	2300	4190		
X65440_at	H.sapiens mRNA for ribosomal protein L6	20	20	2081	1912	691	1054		
X65441_at	H.sapiens mRNA for OAS antigenic surface determinant	212	133	105	40	20	20		
X65442_at	H.sapiens mRNA for mitochondrial isocitrate dehydrogenase (NADP+)	420	362	105	160	121	236		
X65443_at	H.sapiens mRNA for rho GDP-dissociation inhibitor 1	28	51	58	43	81	60		
X65444_at	H.sapiens mRNA sequence (15q11-13)	1050	3815	1712	2534	2872	1457		

Expressed RNA in Suburothelial Connective tissue, Normal urothelium and Transitional cell carcinoma									
X65699 at	H sapiens Prb2 mRNA	183	221	134	125	233	246		
X6819 at	H sapiens ICAM-3 mRNA	20	58	20	20	20	20		
X6819 at	H sapiens mRNA for GSA	37	41	40	28	20	20		
X6819 at	H sapiens mRNA for transmembrane lysine kinase	45	41	65	46	124	52		
X6819 at	H sapiens mRNA for glycyl kinase	20	20	20	20	20	20		
X6819 at	H sapiens gene for mitochondrial ATP synthase c subunit (P2 form)	209	292	437	473	196	233		
X6819 at	H sapiens P33 mRNA for transmembrane protein	217	176	213	138	184	63		
X6819 at	H sapiens mRNA for calcitonin receptor	98	100	140	92	109	24		
X6819 at	H sapiens DNA sequence for Wnt3 tumor gene	20	20	28	20	20	20		
X6819 at	H sapiens FMR-1 mRNA	23	20	28	22	20	20		
X6819 at	H sapiens mRNA for XP-G factor	109	34	273	160	136	81		
X6819 at	H sapiens RCH mRNA for lysine kinase	20	20	20	20	20	20		
X6819 at	H sapiens mRNA for neurotensin receptor	20	20	20	20	20	20		
X6819 at	H sapiens APP-280-like mRNA for filament (B55 bps) (p-X7083) myope-RNA	20	20	20	20	31	20		
X6819 at	H sapiens mRNA for protein phosphatase X	41	72	121	177	83	90		
X6819 at	H sapiens mRNA for neuronal nicotinic acetylcholine receptor alpha-7 subunit	81	68	54	38	37	128		
X6819 at	H sapiens mRNA for transforming growth factor alpha	101	20	20	29	20	26		
X6819 at	H sapiens QZF mRNA	34	32	89	69	72	40		
X6819 at	H sapiens subunit of cadherin complex	131	186	115	135	90	250		
X6819 at	H sapiens d1042 mRNA of DEAD box protein family	44	20	67	56	30	24		
X6819 at	H sapiens mRNA for SDX-4 protein	58	107	309	403	358	478		
X6819 at	H sapiens mRNA for beta 3 adrenergic receptor	30	25	69	43	20	38		
X6819 at	H sapiens mRNA for elongation factor 1 alpha-2	37	20	470	599	244	90		
X6819 at	H sapiens mRNA for P18-associated splicing factor	46	53	65	54	20	49		
X6819 at	H sapiens MAOER mRNA	20	28	28	45	20	23		
X6819 at	H sapiens mRNA for glutamine transfer flavoprotein beta subunit	20	20	127	132	125	124		
X6819 at	H sapiens mRNA for electron transfer flavoprotein IV b-form	159	127	127	132	125	124		
X6819 at	H sapiens soc3 gene	166	67	20	20	40	22		
X6819 at	H sapiens mRNA for tyrosinogen IV b-form	20	20	20	20	20	20		
X6819 at	H sapiens VHNF 1-C mRNA	240	230	459	272	320	190		
X6819 at	H sapiens fus mRNA	48	52	35	29	21	20		
X6819 at	H sapiens ERGIC-53 mRNA	20	57	35	20	79	20		
X6819 at	H sapiens gene for proteasome-like subunit (MECL-1) chymotrypsin-like protease (PSK-H1) last ex	68	189	238	175	86	209		
X6819 at	H sapiens mRNA for chymotrypsin-like protease CTRL-1	20	20	20	20	20	20		
X6819 at	H sapiens GP-4 mRNA for phospholipid hydrolysis phospholipase peroxidase	287	499	490	571	385	452		
X6819 at	H sapiens eod mRNA for endoglin	20	20	20	20	20	20		
X6819 at	H sapiens C6 gene, exon 1	71	50	59	57	233	108		
X6819 at	H sapiens mRNA for cardiotrophin releasing factor receptor	20	20	20	20	20	20		
X6819 at	H sapiens MCP-3 mRNA for monocyte chemoattractant protein-3	23	20	29	28	20	20		
X6819 at	H sapiens mRNA for interleukin 10 (upper left chain variable region (L114))	38	96	20	61	182	51		
X6819 at	H sapiens lung mRNA for transformation up-regulated nuclear protein	20	204	204	577	93	162		
X6819 at	Human endogenous retrovirus mRNA for ORF (p-X72790) myope-RNA	183	204	46	27	153	281		
X6819 at	H sapiens IEF 7442 mRNA	20	20	20	20	20	20		
X6819 at	H sapiens 14A2AK DNA sequence	63	43	83	78	60	49		
X6819 at	H sapiens 14A2AK DNA sequence	26	45	20	20	184	111		
X6819 at	H sapiens 14A2AK DNA sequence	20	20	20	20	20	20		
X6819 at	H sapiens 14A2AK DNA sequence	35	103	170	143	20	84		
X6819 at	H sapiens mRNA for desmocollin type 1	20	20	20	20	20	20		
X6819 at	H sapiens mRNA for catenin	182	153	160	115	139	204		
X6819 at	Human sapiens encoding Polymeric immunoglobulin receptor	223	158	27	70	78	61		
X6819 at	H sapiens mRNA for fast MyBP-C	111	104	64	71	134	254		
X6819 at	H sapiens BAE5-1 mRNA	159	153	768	77	77	214		
X6819 at	H sapiens mRNA for ribosomal protein L3	208	309	383	389	67	1838		
X6819 at	H sapiens gene for cytochrome P-450	25	154	294	101	20	32		
X6819 at	H sapiens mRNA for luteal	37	20	42	190	20	102		
X6819 at	H sapiens PRCA-1 mRNA	20	20	77	20	20	85		
X6819 at	H sapiens E-MAP-115 mRNA	26	20	20	20	20	20		
X6819 at	H sapiens mRNA for protein phosphatase 1 gamma	145	105	178	136	23	107		
X6819 at	H sapiens mRNA for uridine phosphorylase activator receptor	20	20	22	20	64	20		
X6819 at	H sapiens HBE-1 mRNA for transcription factor	222	249	324	321	227	296		
X6819 at	H sapiens RBP40 mRNA encoding retinoblastoma binding protein	20	38	53	60	151	20		
X6819 at	H sapiens mRNA for alpha 7B integrin	42	120	97	20	107	39		
X6819 at	H sapiens mRNA for MHC class II transactivator	94	145	40	50	149	135		
X6819 at	H sapiens mRNA for MHC class II transactivator	20	20	20	20	20	20		

Expressed RNA in Subepithelial connective tissue, Normal urothelium and Transitional cell carcinomas									
Accession	Gene	Accession	Gene	Accession	Gene	Accession	Gene	Accession	Gene
X7433.1.maf.1	H sapiens mRNA for CB2 (peripheral) cannabinoid receptor	X7433.0	H sapiens mRNA for DNA primase (subunit p45)	50	20	20	41	20	20
X7433.1	H sapiens mRNA for DNA primase (subunit p45)	X7433.0	H sapiens mRNA for DNA primase (subunit p45)	20	20	20	98	20	41
X74486.1	H sapiens mRNA for protein oligonucleotidase	X74486.0	H sapiens mRNA for protein oligonucleotidase	20	20	20	20	20	61
X74570.1	H sapiens mRNA for Gal-beta(1-3)-glucosyltransferase	X74570.0	H sapiens mRNA for Gal-beta(1-3)-glucosyltransferase	48	88	82	64	97	97
X74614.1	H sapiens ODF2 (elliptic 2) gene for outer dense fiber protein	X74614.0	H sapiens ODF2 (elliptic 2) gene for outer dense fiber protein	112	127	137	382	220	44
X74764.1	H sapiens mRNA for receptor protein tyrosine kinase	X74764.0	H sapiens mRNA for receptor protein tyrosine kinase	103	117	113	205	20	30
X74784.1	H sapiens P1-Cdc21 mRNA	X74784.0	H sapiens P1-Cdc21 mRNA	20	20	20	20	20	20
X74785.1	H sapiens P1-Cdc21 mRNA	X74785.0	H sapiens P1-Cdc21 mRNA	143	190	199	286	289	289
X74801.1	H sapiens Cdc2p mRNA for chaperonin	X74801.0	H sapiens Cdc2p mRNA for chaperonin	152	211	219	185	310	310
X74819.1	H sapiens mRNA for cardiac troponin T	X74819.0	H sapiens mRNA for cardiac troponin T	41	81	48	236	259	259
X74837.1	H sapiens HUM40 mRNA	X74837.0	H sapiens HUM40 mRNA	20	20	20	20	20	20
X74874.1	H sapiens polymerase II largest subunit gene extracted from H sapiens gene for RNA pol II largest subunit, exon 1	X74874.0	H sapiens polymerase II largest subunit gene extracted from H sapiens gene for RNA pol II largest subunit, exon 1	36	203	217	119	40	40
X74879.1	H sapiens KR18 mRNA for keratin 8	X74879.0	H sapiens KR18 mRNA for keratin 8	20	659	2744	2232	912	912
X74897.1	H sapiens mRNA for 2,5-oligoadenylate binding protein	X74897.0	H sapiens mRNA for 2,5-oligoadenylate binding protein	20	27	55	20	20	41
X75004.1	H sapiens mRNA for pro-oncogene mRNA	X75004.0	H sapiens mRNA for pro-oncogene mRNA	28	28	20	72	37	37
X75009.1	H sapiens mRNA for HLA-DP3 associated protein II (DPAPII)	X75009.0	H sapiens mRNA for HLA-DP3 associated protein II (DPAPII)	38	30	116	49	30	45
X75200.1	H sapiens H6K3 mRNA for protein tyrosine kinase inhibitor	X75200.0	H sapiens H6K3 mRNA for protein tyrosine kinase inhibitor	99	75	50	101	45	45
X75252.1	H sapiens phosphotyrosine-dependent binding protein mRNA	X75252.0	H sapiens phosphotyrosine-dependent binding protein mRNA	247	307	214	264	390	220
X75300.1	H sapiens gliadin mRNA	X75300.0	H sapiens gliadin mRNA	24	95	133	114	48	78
X75306.1	H sapiens mRNA for collagenase 3	X75306.0	H sapiens mRNA for collagenase 3	20	20	20	20	36	20
X75315.1	H sapiens SHB mRNA	X75315.0	H sapiens SHB mRNA	31	132	20	22	20	20
X75342.1	H sapiens SHB mRNA	X75342.0	H sapiens SHB mRNA	117	132	113	105	142	117
X75346.1	H sapiens mRNA for MAP kinase activated protein kinase	X75346.0	H sapiens mRNA for MAP kinase activated protein kinase	20	20	20	20	20	20
X75335.1	H sapiens mRNA for P-4F protein	X75335.0	H sapiens mRNA for P-4F protein	20	20	20	47	415	20
X75548.1	H sapiens mRNA for fibronectin	X75548.0	H sapiens mRNA for fibronectin	65	63	56	35	160	174
X75593.1	H sapiens mRNA for rab 13	X75593.0	H sapiens mRNA for rab 13	260	359	297	235	242	153
X75755.1	H sapiens PR264 gene	X75755.0	H sapiens PR264 gene	23	20	132	110	193	62
X75756.1	H sapiens mRNA for protein kinase C mu	X75756.0	H sapiens mRNA for protein kinase C mu	26	37	22	21	85	36
X75861.1	H sapiens TEGT gene	X75861.0	H sapiens TEGT gene	290	290	502	459	277	218
X75917.1	H sapiens mRNA for fetal beta-MHC binding factor	X75917.0	H sapiens mRNA for fetal beta-MHC binding factor	20	20	20	23	20	20
X75918.1	H sapiens mRNA for NOT	X75918.0	H sapiens mRNA for NOT	48	20	20	20	20	20
X75983.1	H sapiens mRNA for protein-tyrosine kinase	X75983.0	H sapiens mRNA for protein-tyrosine kinase	20	20	20	39	20	20
X75985.1	H sapiens mRNA for OX40 homolog	X75985.0	H sapiens mRNA for OX40 homolog	31	98	72	70	63	63
X76015.1	H sapiens OXSHs mRNA for glutathione S-transferase	X76015.0	H sapiens OXSHs mRNA for glutathione S-transferase	215	342	451	417	154	285
X76075.1	H sapiens mRNA for heparinase U	X76075.0	H sapiens mRNA for heparinase U	150	20	20	20	20	20
X76040.1	H sapiens mRNA for Lcn protease-like protein	X76040.0	H sapiens mRNA for Lcn protease-like protein	26	22	50	32	60	20
X76057.1	H sapiens PMIT mRNA for Lon protease-like protein	X76057.0	H sapiens PMIT mRNA for Lon protease-like protein	46	16	85	70	180	55
X76059.1	H sapiens p130 mRNA for 130K protein	X76059.0	H sapiens p130 mRNA for 130K protein	20	20	20	20	20	20
X76061.1	H sapiens HRF33 mRNA	X76061.0	H sapiens HRF33 mRNA	35	20	49	35	20	52
X76092.1	H sapiens DAP-1 mRNA	X76092.0	H sapiens DAP-1 mRNA	89	95	72	51	20	61
X76104.1	H sapiens DAP-1 mRNA	X76104.0	H sapiens DAP-1 mRNA	20	20	20	20	20	20
X76105.1	H sapiens DAP-1 mRNA	X76105.0	H sapiens DAP-1 mRNA	20	20	20	20	20	20
X76132.1	H sapiens DCC mRNA	X76132.0	H sapiens DCC mRNA	67	32	32	76	71	100
X76160.1	H sapiens mRNA for lung embolus sensitive Na+ channel protein	X76160.0	H sapiens mRNA for lung embolus sensitive Na+ channel protein	255	104	353	253	33	54
X76223.1	H sapiens mRNA for vacuolar H+ ATPase E subunit	X76223.0	H sapiens mRNA for vacuolar H+ ATPase E subunit	3490	175	153	124	70	20
X76228.1	H sapiens RV-1 mRNA for putative nuclear acid binding protein	X76228.0	H sapiens RV-1 mRNA for putative nuclear acid binding protein	175	85	71	48	97	123
X76302.1	H sapiens ADH7 mRNA	X76302.0	H sapiens ADH7 mRNA	132	20	20	20	20	20
X76342.1	H sapiens mRNA for HEN1alpha	X76342.0	H sapiens mRNA for HEN1alpha	20	20	20	20	20	20
X76383.1	H sapiens gene for urokinase-type plasminogen activator	X76383.0	H sapiens gene for urokinase-type plasminogen activator	20	20	20	20	20	20
X76389.1	H sapiens MAB mRNA	X76389.0	H sapiens MAB mRNA	142	125	31	142	324	437
X76393.1	H sapiens MAB mRNA	X76393.0	H sapiens MAB mRNA	62	107	65	75	67	64
X76395.1	H sapiens MAB mRNA	X76395.0	H sapiens MAB mRNA	47	107	72	73	100	73
X76446.1	H sapiens mRNA for glutaredoxin	X76446.0	H sapiens mRNA for glutaredoxin	251	18	68	73	100	62
X76717.1	H sapiens MTR-11 mRNA	X76717.0	H sapiens MTR-11 mRNA	21	18	72	73	100	62
X76732.1	H sapiens NEFA protein, mRNA, complete cds (DNA-binding leucine zipper protein, calcium-binding EF-hand protein, from acute lymphoblastic leukemia cell line)	X76732.0	H sapiens NEFA protein, mRNA, complete cds (DNA-binding leucine zipper protein, calcium-binding EF-hand protein, from acute lymphoblastic leukemia cell line)	8	109	107	58	107	178
X76770.1	H sapiens PAP mRNA	X76770.0	H sapiens PAP mRNA	219	109	190	84	221	72
X76942.1	H sapiens mRNA for p40phox	X76942.0	H sapiens mRNA for p40phox	21	21	20	20	20	42
X77064.1	H sapiens gene for leucine-type protease inhibitor, HK89	X77064.0	H sapiens gene for leucine-type protease inhibitor, HK89	20	20	20	20	20	36
X77166.1	H sapiens mRNA for chloride channel	X77166.0	H sapiens mRNA for chloride channel	20	20	20	20	20	36
X77307.1	H sapiens mRNA for 5-HT2B serotonin receptor	X77307.0	H sapiens mRNA for 5-HT2B serotonin receptor	27	20	20	20	20	20
X77366.1	H sapiens HBZ17 mRNA	X77366.0	H sapiens HBZ17 mRNA	39	43	102	99	20	20
X77383.1	H sapiens mRNA for cathepsin-O	X77383.0	H sapiens mRNA for cathepsin-O	20	20	20	20	20	20
X77532.1	H sapiens mRNA for activin type II receptor	X77532.0	H sapiens mRNA for activin type II receptor	20	20	20	20	20	20
X77548.1	H sapiens cDNA for RFG	X77548.0	H sapiens cDNA for RFG	67	39	69	75	25	79
X77567.1	H sapiens mRNA for InsP3 5-phosphatase	X77567.0	H sapiens mRNA for InsP3 5-phosphatase	20	20	20	20	20	20



[illegible]







Expressed RNA in Subcutaneous connective tissue, Normal umbilical and Transitional cell carcinomas

X02090	at	H sapiens mRNA for transmembrane protein mp24	113	51	196	136	79	60
X02100	at	H sapiens mRNA for biotinidase	32	20	33	30	51	20
X02110	at	H sapiens mRNA for hsp70 protein	27	20	31	24	51	20
X02360	at	H sapiens nca1 gene (exon 1), (p= X02368 myp=DNA (normal) mRNA	24	88	80	24	74	20
X02396	at	H sapiens nca1 gene (exon 1), (p= X02368 myp=DNA (normal) mRNA	48	31	31	35	20	20
X02475	at	H sapiens mRNA for novel gene in X028 region	75	113	80	64	253	121
X02483	at	H sapiens mRNA for ITBA1 protein	33	47	20	21	20	47
X02510	at	H sapiens mRNA for ITBA1 protein	61	105	151	78	323	87
X02521	at	H sapiens mRNA for HUGLC protein	38	50	40	41	64	53
X02569	at	H sapiens mRNA for HUGLC protein	26	30	24	41	20	20
X02715	at	H sapiens mRNA for UGPase2 protein	21	30	35	20	68	60
X02720	at	H sapiens mRNA for UGPase2 protein	65	80	78	20	111	241
X02744	at	H sapiens mRNA for phosphoenolpyruvate carboxylase	54	60	30	20	34	30
X02762	at	H sapiens mRNA for hsp70 protein	38	60	30	20	111	241
X02781	at	H sapiens mRNA for hsp70 protein	79	102	85	50	107	116
X02786	at	H sapiens mRNA for hsp70 protein	53	108	82	21	130	124
X02792	at	H sapiens mRNA for hsp70 protein	37	108	82	21	130	124
X03017	at	H sapiens mRNA for hsp70 protein	70	1232	2161	3783	1907	851
X03036	at	H sapiens mRNA for hsp70 protein	70	23	20	20	20	20
X03098	at	H sapiens mRNA for 21-Glutamic Acid-Rich Protein (21-GARP)	55	20	44	61	113	20
X03100	at	H sapiens mRNA for 37 kDa LIM domain protein	43	20	20	20	20	20
X03111	at	H sapiens mRNA for telomeric DNA binding protein (orf1)	37	54	103	56	91	37
X03112	at	H sapiens mRNA for telomeric DNA binding protein (orf2)	20	20	20	20	20	20
X03200	at	H sapiens mRNA for protein-tyrosine-phosphatase (tissue type: foetal)	59	61	77	66	33	65
X03221	at	H sapiens mRNA for protein-tyrosine-phosphatase (tissue type: foetal)	76	20	43	59	20	20
X03296	ma1	H sapiens mRNA for AFX protein	201	211	218	211	517	199
X04232	at	H sapiens mRNA for novel T-cell activation protein	44	51	20	50	20	69
X04333	at	H sapiens mRNA for TGN46 protein	30	20	20	20	20	20
X04453	at	H sapiens mRNA for pyrimidine 5-carboxylate synthetase	30	20	24	24	30	20
X04563	up2	exon 1b, used only in type 2 transcripts from H sapiens dbp/cbp gene exon 1 & 2 (p= X04563 myp=DNA (normal) exon	171	235	576	600	3021	1445
X04612	at	H sapiens mRNA for type II GMP-dependent protein kinase	20	111	20	23	35	45
X04629	ma1	H sapiens MacP-2 gene	20	20	20	20	20	20
X04729	at	H sapiens mRNA for metaphase chromosome protein	20	20	20	20	20	20
X04770	at	H sapiens rna28 mRNA	59	93	98	101	142	228
X04771	at	H sapiens mRNA for ERp31 protein	32	20	155	129	20	20
X04772	at	H sapiens mRNA for ERp31 protein	20	20	20	20	20	20
X04773	at	H sapiens mRNA for ERp31 protein	20	20	20	20	20	20
X04774	at	H sapiens mRNA for ERp31 protein	20	20	20	20	20	20
X04775	at	H sapiens mRNA for ERp31 protein	20	20	20	20	20	20
X04776	at	H sapiens mRNA for ERp31 protein	20	20	20	20	20	20
X04777	at	H sapiens mRNA for ERp31 protein	20	20	20	20	20	20
X04778	at	H sapiens mRNA for ERp31 protein	20	20	20	20	20	20
X04779	at	H sapiens mRNA for ERp31 protein	20	20	20	20	20	20
X04780	at	H sapiens mRNA for ERp31 protein	20	20	20	20	20	20
X04781	at	H sapiens mRNA for ERp31 protein	20	20	20	20	20	20
X04782	at	H sapiens mRNA for ERp31 protein	20	20	20	20	20	20
X04783	at	H sapiens mRNA for ERp31 protein	20	20	20	20	20	20
X04784	at	H sapiens mRNA for ERp31 protein	20	20	20	20	20	20
X04785	at	H sapiens mRNA for ERp31 protein	20	20	20	20	20	20
X04786	at	H sapiens mRNA for ERp31 protein	20	20	20	20	20	20
X04787	at	H sapiens mRNA for ERp31 protein	20	20	20	20	20	20
X04788	at	H sapiens mRNA for ERp31 protein	20	20	20	20	20	20
X04789	at	H sapiens mRNA for ERp31 protein	20	20	20	20	20	20
X04790	at	H sapiens mRNA for ERp31 protein	20	20	20	20	20	20
X04791	at	H sapiens mRNA for ERp31 protein	20	20	20	20	20	20
X04792	at	H sapiens mRNA for ERp31 protein	20	20	20	20	20	20
X04793	at	H sapiens mRNA for ERp31 protein	20	20	20	20	20	20
X04794	at	H sapiens mRNA for ERp31 protein	20	20	20	20	20	20
X04795	at	H sapiens mRNA for ERp31 protein	20	20	20	20	20	20
X04796	at	H sapiens mRNA for ERp31 protein	20	20	20	20	20	20
X04797	at	H sapiens mRNA for ERp31 protein	20	20	20	20	20	20
X04798	at	H sapiens mRNA for ERp31 protein	20	20	20	20	20	20
X04799	at	H sapiens mRNA for ERp31 protein	20	20	20	20	20	20
X04800	at	H sapiens mRNA for ERp31 protein	20	20	20	20	20	20
X04801	at	H sapiens mRNA for ERp31 protein	20	20	20	20	20	20
X04802	at	H sapiens mRNA for ERp31 protein	20	20	20	20	20	20
X04803	at	H sapiens mRNA for ERp31 protein	20	20	20	20	20	20
X04804	at	H sapiens mRNA for ERp31 protein	20	20	20	20	20	20
X04805	at	H sapiens mRNA for ERp31 protein	20	20	20	20	20	20
X04806	at	H sapiens mRNA for ERp31 protein	20	20	20	20	20	20
X04807	at	H sapiens mRNA for ERp31 protein	20	20	20	20	20	20
X04808	at	H sapiens mRNA for ERp31 protein	20	20	20	20	20	20
X04809	at	H sapiens mRNA for ERp31 protein	20	20	20	20	20	20
X04810	at	H sapiens mRNA for ERp31 protein	20	20	20	20	20	20
X04811	at	H sapiens mRNA for ERp31 protein	20	20	20	20	20	20
X04812	at	H sapiens mRNA for ERp31 protein	20	20	20	20	20	20
X04813	at	H sapiens mRNA for ERp31 protein	20	20	20	20	20	20
X04814	at	H sapiens mRNA for ERp31 protein	20	20	20	20	20	20
X04815	at	H sapiens mRNA for ERp31 protein	20	20	20	20	20	20
X04816	at	H sapiens mRNA for ERp31 protein	20	20	20	20	20	20
X04817	at	H sapiens mRNA for ERp31 protein	20	20	20	20	20	20
X04818	at	H sapiens mRNA for ERp31 protein	20	20	20	20	20	20
X04819	at	H sapiens mRNA for ERp31 protein	20	20	20	20	20	20
X04820	at	H sapiens mRNA for ERp31 protein	20	20	20	20	20	20
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X04822	at	H sapiens mRNA for ERp31 protein	20	20	20	20	20	20
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X04826	at	H sapiens mRNA for ERp31 protein	20	20	20	20	20	20
X04827	at	H sapiens mRNA for ERp31 protein	20	20	20	20	20	20
X04828	at	H sapiens mRNA for ERp31 protein	20	20	20	20	20	20
X04829	at	H sapiens mRNA for ERp31 protein	20	20	20	20	20	20
X04830	at	H sapiens mRNA for ERp31 protein	20	20	20	20	20	20
X04831	at	H sapiens mRNA for ERp31 protein	20	20	20	20	20	20
X04832	at	H sapiens mRNA for ERp31 protein	20	20	20	20	20	20
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X04834	at	H sapiens mRNA for ERp31 protein	20	20	20	20	20	20
X04835	at	H sapiens mRNA for ERp31 protein	20	20	20	20	20	20
X04836	at	H sapiens mRNA for ERp31 protein	20	20	20	20	20	20
X04837	at	H sapiens mRNA for ERp31 protein	20	20	20	20	20	20
X04838	at	H sapiens mRNA for ERp31 protein	20	20	20	20	20	20
X04839	at	H sapiens mRNA for ERp31 protein	20	20	20	20	20	20
X04840	at	H sapiens mRNA for ERp31 protein	20	20	20	20	20	20
X04841	at	H sapiens mRNA for ERp31 protein	20	20	20	20	20	20
X04842	at	H sapiens mRNA for ERp31 protein	20	20	20	20	20	20
X04843	at	H sapiens mRNA for ERp31 protein	20	20	20	20	20	20
X04844	at	H sapiens mRNA for ERp31 protein	20	20	20	20	20	20
X04845	at	H sapiens mRNA for ERp31 protein	20	20	20	20	20	20
X04846	at	H sapiens mRNA for ERp31 protein	20	20	20	20	20	20
X04847	at	H sapiens mRNA for ERp31 protein	20	20	20	20	20	20
X04848	at	H sapiens mRNA for ERp31 protein	20	20	20	20	20	20
X04849	at	H sapiens mRNA for ERp31 protein	20	20	20	20	20	20
X04850	at	H sapiens mRNA for ERp31 protein	20	20	20	20	20	20
X04851	at	H sapiens mRNA for ERp31 protein	20	20	20	20	20	20
X04852	at	H sapiens mRNA for ERp31 protein	20	20	20	20	20	20
X04853	at	H sapiens mRNA for ERp31 protein	20	20	20	20	20	20
X04854	at	H sapiens mRNA for ERp31 protein	20	20	20	20	20	20
X04855	at	H sapiens mRNA for ERp31 protein	20	20	20	20	20	20
X04856	at	H sapiens mRNA for ERp31 protein	20	20	20	20	20	20
X04857	at	H sapiens mRNA for ERp31 protein	20	20	20	20	20	20
X04858	at	H sapiens mRNA for ERp31 protein	20	20	20	20	20	20
X04859	at	H sapiens mRNA for ERp31 protein	20	20	20	20	20	20
X04860	at	H sapiens mRNA for ERp31 protein	20	20	20	20	20	20
X04861	at	H sapiens mRNA for ERp31 protein	20	20	20	20	20	20
X04862	at	H sapiens mRNA for ERp31 protein	20	20	20	20	20	20
X04863	at	H sapiens mRNA for ERp31 protein	20	20	20	20	20	20
X04864	at	H sapiens mRNA for ERp31 protein	20	20	20	20	20	20
X04865	at	H sapiens mRNA for ERp31 protein	20	20	20	20	20	20
X04866	at	H sapiens mRNA for ERp31 protein	20	20	20	20	20	20
X04867	at	H sapiens mRNA for ERp31 protein	20	20	20	20	20	20
X04868	at	H sapiens mRNA for ERp31 protein	20	20	20	20	20	20
X04869	at	H sapiens mRNA for ERp31 protein	20	20	20	20	20	20
X04870	at	H sapiens mRNA for ERp31 protein	20	20	20	20	20	20
X04871	at	H sapiens mRNA for ERp31 protein	20	20	20	20	20	20
X04872	at	H sapiens mRNA for ERp31 protein	20	20	20	20	20	20
X04873	at	H sapiens mRNA for ERp31 protein	20	20	20	20	20	20
X04874	at	H sapiens mRNA for ERp31 protein	20	20	20	20	20	20
X04875	at	H sapiens mRNA for ERp31 protein	20	20	20	20	20	20
X04876	at	H sapiens mRNA for ERp31 protein	20	20	20	20	20	20
X04877	at	H sapiens mRNA for ERp31 protein	20	20	20	20	20	20
X04878	at	H sapiens mRNA for ERp31 protein	20	20	20	20	20	20
X04879	at	H sapiens mRNA for ERp31 protein	20	20	20	20	20	20
X04880	at	H sapiens mRNA for ERp31 protein	20	20	20	20	20	20
X04881	at	H sapiens mRNA for ERp31 protein	20	20	20	20	20	20
X04882	at	H sapiens mRNA for ERp31 protein	20	20	20	20	20	20
X04883	at	H sapiens mRNA for ERp31 protein	20	20	20	20	20	20
X04884	at	H sapiens mRNA for ERp31 protein	20	20	20	20	20	20
X04885	at	H sapiens mRNA for ERp31 protein	20	20	20	20	20	20
X04886	at	H sapiens mRNA for ERp31 protein	20	20	20	20	20	20
X04887	at	H sapiens mRNA for ERp31 protein	20	20	20	20	20	20
X04888	at	H sapiens mRNA for ERp31 protein	20	20	20	20	20	20
X04889	at	H sapiens mRNA for ERp31 protein	20	20	20	20	20	20
X04890	at	H sapiens mRNA for ERp31 protein	20	20	20	20	20	20
X04891	at	H sapiens mRNA for ERp31 protein	20	20	20	20	20	20
X04892	at	H sapiens mRNA for ERp31 protein	20	20	20	20	20	20
X04893	at	H sapiens mRNA for ER						

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Expressed RNA in Subendothelial Connective Tissue, Normal Urothelium and Transitional Cell Carcinomas												
X99101_c1	H sapiens mRNA for estrogen receptor.	354	59	31	36	50	22	30	30	30	30	30
X99103_c1	H sapiens NGAL gene	354	59	31	36	50	22	30	30	30	30	30
X99113_c1	H sapiens mRNA for hair "keratin," THB5	354	59	31	36	50	22	30	30	30	30	30
X99114_c1	H sapiens mRNA for hair "keratin," THB3	354	59	31	36	50	22	30	30	30	30	30
X99141_c1	H sapiens mRNA for hair "keratin," THB3	354	59	31	36	50	22	30	30	30	30	30
X99142_c1	H sapiens mRNA for hair "keratin," THB6	354	59	31	36	50	22	30	30	30	30	30
X99109_c1	H sapiens mRNA for arginine methyltransferase	354	59	31	36	50	22	30	30	30	30	30
X99126_c1	H sapiens mRNA for F-actin protein	354	59	31	36	50	22	30	30	30	30	30
X99206_c1	H sapiens mRNA for B-HLH DNA binding protein	354	59	31	36	50	22	30	30	30	30	30
X99226_c1	H sapiens RD gene (5' partial) and G11a gene (5' partial).	354	59	31	36	50	22	30	30	30	30	30
X99235_c1	H sapiens mRNA for Ste20-like kinase	354	59	31	36	50	22	30	30	30	30	30
X99350_c1	H sapiens NF4 gene, exon 1 and joined CDS.	354	59	31	36	50	22	30	30	30	30	30
X99371_c1	H sapiens mRNA for ferritin beta	354	59	31	36	50	22	30	30	30	30	30
X99393_c1	H sapiens CdkB5 gene, non-functional mutant	354	59	31	36	50	22	30	30	30	30	30
X99459_c1	H sapiens mRNA for alpha 39 protein	354	59	31	36	50	22	30	30	30	30	30
X99479_c1	H sapiens mRNA for PK receptor, gene 12.11C	354	59	31	36	50	22	30	30	30	30	30
X99584_c1	H sapiens mRNA for SH3B protein	354	59	31	36	50	22	30	30	30	30	30
X99585_c1	H sapiens mRNA for SH3C protein	354	59	31	36	50	22	30	30	30	30	30
X99586_c1	H sapiens mRNA for protein containing SH3 domain, SH3G1	354	59	31	36	50	22	30	30	30	30	30
X99587_c1	H sapiens mRNA for protein containing SH3 domain, SH3G2	354	59	31	36	50	22	30	30	30	30	30
X99588_c1	H sapiens mRNA for protein containing SH3 domain, SH3G3	354	59	31	36	50	22	30	30	30	30	30
X99589_c1	H sapiens mRNA for methyl-CpG-binding protein 2, imron 2 (pX99587 mypse-RNA)	354	59	31	36	50	22	30	30	30	30	30
X99590_c1	H sapiens mRNA from T1, gene	354	59	31	36	50	22	30	30	30	30	30
X99591_c1	H sapiens mRNA for T1, gene	354	59	31	36	50	22	30	30	30	30	30
X99592_c1	H sapiens mRNA for T1, gene	354	59	31	36	50	22	30	30	30	30	30
X99593_c1	H sapiens mRNA for T1, gene	354	59	31	36	50	22	30	30	30	30	30
X99594_c1	H sapiens mRNA for T1, gene	354	59	31	36	50	22	30	30	30	30	30
X99595_c1	H sapiens mRNA for T1, gene	354	59	31	36	50	22	30	30	30	30	30
X99596_c1	H sapiens mRNA for T1, gene	354	59	31	36	50	22	30	30	30	30	30
X99597_c1	H sapiens mRNA for T1, gene	354	59	31	36	50	22	30	30	30	30	30
X99598_c1	H sapiens mRNA for T1, gene	354	59	31	36	50	22	30	30	30	30	30
X99599_c1	H sapiens mRNA for T1, gene	354	59	31	36	50	22	30	30	30	30	30
X99600_c1	H sapiens mRNA for T1, gene	354	59	31	36	50	22	30	30	30	30	30
X99601_c1	H sapiens mRNA for T1, gene	354	59	31	36	50	22	30	30	30	30	30
X99602_c1	H sapiens mRNA for T1, gene	354	59	31	36	50	22	30	30	30	30	30
X99603_c1	H sapiens mRNA for T1, gene	354	59	31	36	50	22	30	30	30	30	30
X99604_c1	H sapiens mRNA for T1, gene	354	59	31	36	50	22	30	30	30	30	30
X99605_c1	H sapiens mRNA for T1, gene	354	59	31	36	50	22	30	30	30	30	30
X99606_c1	H sapiens mRNA for T1, gene	354	59	31	36	50	22	30	30	30	30	30
X99607_c1	H sapiens mRNA for T1, gene	354	59	31	36	50	22	30	30	30	30	30
X99608_c1	H sapiens mRNA for T1, gene	354	59	31	36	50	22	30	30	30	30	30
X99609_c1	H sapiens mRNA for T1, gene	354	59	31	36	50	22	30	30	30	30	30
X99610_c1	H sapiens mRNA for T1, gene	354	59	31	36	50	22	30	30	30	30	30
X99611_c1	H sapiens mRNA for T1, gene	354	59	31	36	50	22	30	30	30	30	30
X99612_c1	H sapiens mRNA for T1, gene	354	59	31	36	50	22	30	30	30	30	30
X99613_c1	H sapiens mRNA for T1, gene	354	59	31	36	50	22	30	30	30	30	30
X99614_c1	H sapiens mRNA for T1, gene	354	59	31	36	50	22	30	30	30	30	30
X99615_c1	H sapiens mRNA for T1, gene	354	59	31	36	50	22	30	30	30	30	30
X99616_c1	H sapiens mRNA for T1, gene	354	59	31	36	50	22	30	30	30	30	30
X99617_c1	H sapiens mRNA for T1, gene	354	59	31	36	50	22	30	30	30	30	30
X99618_c1	H sapiens mRNA for T1, gene	354	59	31	36	50	22	30	30	30	30	30
X99619_c1	H sapiens mRNA for T1, gene	354	59	31	36	50	22	30	30	30	30	30
X99620_c1	H sapiens mRNA for T1, gene	354	59	31	36	50	22	30	30	30	30	30
X99621_c1	H sapiens mRNA for T1, gene	354	59	31	36	50	22	30	30	30	30	30
X99622_c1	H sapiens mRNA for T1, gene	354	59	31	36	50	22	30	30	30	30	30
X99623_c1	H sapiens mRNA for T1, gene	354	59	31	36	50	22	30	30	30	30	30
X99624_c1	H sapiens mRNA for T1, gene	354	59	31	36	50	22	30	30	30	30	30
X99625_c1	H sapiens mRNA for T1, gene	354	59	31	36	50	22	30	30	30	30	30
X99626_c1	H sapiens mRNA for T1, gene	354	59	31	36	50	22	30	30	30	30	30
X99627_c1	H sapiens mRNA for T1, gene	354	59	31	36	50	22	30	30	30	30	30
X99628_c1	H sapiens mRNA for T1, gene	354	59	31	36	50	22	30	30	30	30	30
X99629_c1	H sapiens mRNA for T1, gene	354	59	31	36	50	22	30	30	30	30	30
X99630_c1	H sapiens mRNA for T1, gene	354	59	31	36	50	22	30	30	30	30	30
X99631_c1	H sapiens mRNA for T1, gene	354	59	31	36	50	22	30	30	30	30	30
X99632_c1	H sapiens mRNA for T1, gene	354	59	31	36	50	22	30	30	30	30	30
X99633_c1	H sapiens mRNA for T1, gene	354	59	31	36	50	22	30	30	30	30	30
X99634_c1	H sapiens mRNA for T1, gene	354	59	31	36	50	22	30	30	30	30	30
X99635_c1	H sapiens mRNA for T1, gene	354	59	31	36	50	22	30	30	30	30	30
X99636_c1	H sapiens mRNA for T1, gene	354	59	31	36	50	22	30	30	30	30	30
X99637_c1	H sapiens mRNA for T1, gene	354	59	31	36	50	22	30	30	30	30	30
X99638_c1	H sapiens mRNA for T1, gene	354	59	31	36	50	22	30	30	30	30	30
X99639_c1	H sapiens mRNA for T1, gene	354	59	31	36	50	22	30	30	30	30	30
X99640_c1	H sapiens mRNA for T1, gene	354	59	31	36	50	22	30	30	30	30	30
X99641_c1	H sapiens mRNA for T1, gene	354	59	31	36	50	22	30	30	30	30	30
X99642_c1	H sapiens mRNA for T1, gene	354	59	31	36	50	22	30	30	30	30	30
X99643_c1	H sapiens mRNA for T1, gene	354	59	31	36	50	22	30	30	30	30	30
X99644_c1	H sapiens mRNA for T1, gene	354	59	31	36	50	22	30	30	30	30	30
X99645_c1	H sapiens mRNA for T1, gene	354	59	31	36	50	22	30	30	30	30	30
X99646_c1	H sapiens mRNA for T1, gene	354	59	31	36	50	22	30	30	30	30	30
X99647_c1	H sapiens mRNA for T1, gene	354	59	31	36	50	22	30	30	30	30	30
X99648_c1	H sapiens mRNA for T1, gene	354	59	31	36	50	22	30	30	30	30	30
X99649_c1	H sapiens mRNA for T1, gene	354	59	31	36	50	22	30	30	30	30	30
X99650_c1	H sapiens mRNA for T1, gene	354	59	31	36	50	22	30	30	30	30	30
X99651_c1	H sapiens mRNA for T1, gene	354	59	31	36	50	22	30	30	30	30	30
X99652_c1	H sapiens mRNA for T1, gene	354	59	31	36	50	22	30	30	30	30	30
X99653_c1	H sapiens mRNA for T1, gene	354	59	31	36	50	22	30	30	30	30	30
X99654_c1	H sapiens mRNA for T1, gene	354	59	31	36	50	22	30	30	30	30	30
X99655_c1	H sapiens mRNA for T1, gene	354	59	31	36	50	22	30	30	30	30	30
X99656_c1	H sapiens mRNA for T1, gene	354	59	31	36	50	22	30	30	30	30	30
X99657_c1	H sapiens mRNA for T1, gene	354	59	31	36	50	22	30	30	30	30	30
X99658_c1	H sapiens mRNA for T1, gene	354	59	31	36	50	22	30	30	30	30	30
X99659_c1	H sapiens mRNA for T1, gene	354	59	31	36	50	22	30	30	30	30	30
X99660_c1	H sapiens mRNA for T1, gene	354	59	31	36	50	22	30	30	30	30	30
X99661_c1	H sapiens mRNA for T1, gene	354	59	31	36	50	22	30	30	30	30	30
X99662_c1	H sapiens mRNA for T1, gene	354	59	31	36	50	22	30	30	30	30	30
X99663_c1	H sapiens mRNA for T1, gene	354	59	31	36	50	22	30	30	30	30	30
X99664_c1	H sapiens mRNA for T1, gene	354	59	31	36	50	22	30	30	30	30	30
X99665_c1	H sapiens mRNA for T1, gene	354	59	31	36	50	22	30	30	30	30	30
X99666_c1	H sapiens mRNA for T1, gene	354	59	31	36	50	22	30	30	30	30	30
X99667_c1	H sapiens mRNA for T1, gene	354	59	31	36	50	22	30	30	30	30	30
X99668_c1	H sapiens mRNA for T1, gene	354	59	31	36	50	22	30	30	30	30	30
X99669_c1	H sapiens mRNA for T1, gene	354	59	31	36	50	22	30	30	30	30	30
X99670_c1	H sapiens mRNA for T1, gene	354	59	31	36	50	22	30	30	30	30	30
X99671_c1	H sapiens mRNA for T1, gene	354	59	31	36	50	22	30	30	30	30	30
X99672_c1	H sapiens mRNA for T1, gene	354	59	31	36	50	22	30	30	30	30	30
X99673_c1	H sapiens mRNA for T1, gene	354	59	31	36	50	22	30	30	30	30	30
X99674_c1	H sapiens mRNA for T1, gene	354	59	31	36	50	22	30	30	30	30	30
X99675_c1	H sapiens mRNA for T1, gene	354	59	31	36	50	22	30	30	30	30	30
X99676_c1	H sapiens mRNA for T1, gene	354	59	31	36	50	22	30	30	30	30	30
X99677_c1	H sapiens mRNA for T1, gene	354	59	31	36	50	22	30	30	30	30	30
X99678_c1	H sapiens mRNA for T1, gene	354	59	31	36	50	22	30	30	30	30	30
X99679_c1	H sapiens mRNA for T1, gene	354	59	31	36	50	22	30	30	30	30	30
X99680_c1	H sapiens mRNA for T1, gene	354	59	31	36	50	22	30	30	30	30	30
X99681_c1	H sapiens mRNA for T1, gene	354	59	31	36	50	22	30	30	30	30	30
X99682_c1	H sapiens mRNA for T1, gene	354	59	31	36	50						



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Expressed RNA in Suburothelial Connective Tissue, Normal Urothelium and Transitional cell carcinomas																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																										
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Genbank	Gene ID	Gene name	covariance
AB000584_at	AB000584	TGF-beta superfamily protein,	av dif neg
AB002533_at	KPNA4	Qip1, :karyopherin alpha 4	av dif neg
AB002559_at	AB002559	hunc18b2,	av dif neg
AB003102_at	AB003102	26S proteasome subunit p44.5,	av dif neg
AB006782_at	AB006782	galectin-9 isoform,	av dif neg
AC002045_xpt2_s_at	AC002045	Chromosome 16 BAC clone CIT987	av dif neg
AC002073_cds1_at	AC002073	PAC clone DJ515N1 from 22q11.2	av dif neg
AC002115_cds1_at	AC002115	DNA from overlapping chromosom	av dif neg
AC002115_cds4_at	AC002115	DNA from overlapping chromosom	av dif neg
AD000092_cds1_at	CH19HHR23	DNA from chromosome 19p13.2 co	av dif neg
AF000562_at	AF000562	uroplakin II mRNA,	av dif neg
AF001359_f_at	AF001359	DNA mismatch repair protein \	av dif neg
AF009368_at	AF009368	Luman mRNA, :Luman "mRNA," /	av dif neg
AF015913_at	SKB1	SKB1Hs mRNA, :skb1 \S. pombe	av dif neg
D00017_at	HUMLIC	lipocortin II, :annexin II	av dif neg
D00408_s_at	HUMXYPFLA	fetal liver cytochrome P-450	av dif neg
D00596_at	HUMTS1	gene for thymidylate synthase, .	av dif neg
D00654_at	HUMACTSG7	gene for enteric smooth muscle	av dif neg
D10523_at	HUM2OGDH	2-oxoglutarate dehydrogenase,	av dif neg
D11086_at	HUMIL2RG	interleukin 2 receptor gamma	av dif neg
D11086_at	HUMIL2RG	interleukin 2 receptor gamma	av dif neg
D11094_at	HUMMSS1	MSS1, :proteasome \prosome,	av dif neg
D11327_s_at	HUMLCPTP	protein-tyrosine phosphatase,	av dif neg
D13118_at	HUMATPSCP1	P1 ATP synthase subunit c, :	av dif neg
D13413_ma1_s_at	HUMTA120	tumor-associated 120 kDa nucl	av dif neg
D13643_at	HUMRSC390	KIAA0018 gene, :KIAA0018 gen	av dif neg
D13705_s_at	HUMOMHY	fatty acids omega-hydroxylase	av dif neg
D13748_at	HUM4AI	eukaryotic initiation factor	av dif neg
D14043_at	HUMMGC24	MGC-24, : "MGC-24," complete	av dif neg
D14530_at	HUMRSPT	homolog of yeast ribosomal pro	av dif neg
D14710_at	HUMIPASAS2	ATP synthase alpha subunit,	av dif neg
D16294_at	HUMDSAEC	mitochondrial 3-oxoacyl-CoA t	av dif neg
D16562_at	HUMATPSGL	ATP synthase gamma-subunit \	av dif neg
D16581_at	HUM8ODGTP	8-oxo-dGTPase, : "8-oxo-dGTP	av dif neg
D17516_at	HUMPACAPR	PACAP receptor, :adenylate c	av dif neg
D17516_at	HUMPACAPR	PACAP receptor, :adenylate c	av dif neg
D17525_at	D17525	precursor of P100 serine prot	av dif neg
D21063_at	HUMORFAAA	KIAA0030 gene,	av dif neg
D21261_at	HUMORFFA	KIAA0120 gene, :transgelin 2	av dif neg
D23660_at	HUMRSP	ribosomal protein, : ribosom	av dif neg
D25218_at	HUMORFN	KIAA0112 gene,	av dif neg
D25218_at	HUMORFN	KIAA0112 gene,	av dif neg
D25248_at	HUMRES44	mRNA, clone:RES4-4.	av dif neg
D25248_at	HUMRES44	mRNA, clone:RES4-4.	av dif neg
D25278_at	HUMORFO	KIAA0036 gene, :KIAA0036 gen	av dif neg
D25303_at	HUMIAS	integrin alpha subunit,	av dif neg
D26129_at	HUMRNASA	ribonuclease A \RNase A\),	av dif neg
D26528_at	HUMRNA	RNA helicase, :DEAD/H \Asp-	av dif neg
D26535_s_at	HUMDS	gene for dihydrolipoamide succ	av dif neg
D26599_at	HUMPSH2	proteasome subunit HsC7-I, :	av dif neg
D28383_at	HUMASB42	ATP synthase B chain, 5'UTR	av dif neg
D28589_at	HUMKG1E	mRNA \KIAA00167\), partial se	av dif neg
D28915_at	HUMHCAMAP8	gene for hepatitis C-associate	av dif neg
D29012_at	HUMPSY	proteasome subunit Y, : prot	av dif neg

D29641_at	HUMORFA02	KIAA0052 gene,	av dif neg
D29958_at	HUMORFA10	KIAA0116 gene,	av dif neg
D30655_at	HUMELF4AII	eukaryotic initiation factor	av dif neg
D31764_at	HUMORFKG1C	KIAA0064 gene, :KIAA0064 gen	av dif neg
D31764_at	HUMORFKG1C	KIAA0064 gene, :KIAA0064 gen	av dif neg
D31883_at	HUMORFKG1L	KIAA0059 gene, : KIAA0059 "g	av dif neg
D31884_at	HUMORFKG1M	KIAA0063 gene, :KIAA0063 gen	av dif neg
D31884_at	HUMORFKG1M	KIAA0063 gene, :KIAA0063 gen	av dif neg
D31891_at	HUMORFKG1T	KIAA0067 gene, :SET domain,	av dif neg
D32129_f_at	HUMHLAAD	HLA class-I \(\text{HLA-A26}\) heavy	av dif neg
D38047_at	HUMPSP31	26S proteasome subunit p31,	av dif neg
D38555_at	HUMORF008	KIAA0079 gene, :Sec24p, S. C	av dif neg
D38583_at	HUMCOLO	calgizzarin, : "calgizzarin,	av dif neg
D42046_at	HUMKIAAJ	KIAA0083 gene, :DNA2 \(\text{DNA r}	av dif neg
D42046_at	HUMKIAAJ	KIAA0083 gene, :DNA2 \(\text{DNA r}	av dif neg
D42047_at	HUMKIAAK	KIAA0089 gene, : KIAA0089 "g	av dif neg
D43682_s_at	HUMVLCAD	very-long-chain acyl-CoA dehy	av dif neg
D45370_at	HUMUPST1	apM2 GS2374 \(\text{unknown product}	av dif neg
D49396_at	HUMAOP1	Apo1 \(\text{MER5(Aop1-Mouse)-lik}	av dif neg
D49488_at	HUMHTTP	alpha-tocopherol transfer pro	av dif neg
D49728_at	HUMNAK1	NAK1 DNA binding protein,	av dif neg
D49824_s_at	HUMHLABAA	HLA-B null allele mRNA. :HLA-B	av dif neg
D50640_at	D50625S16	DNA for phosphodiesterase 3B,	av dif neg
D63478_at	KIAA0144	KIAA0144 gene, :KIAA0144 gen	av dif neg
D63479_s_at	D63479	KIAA0145 gene,	av dif neg
D63485_at	KIAA0151	KIAA0151 gene, :KIAA0151 gen	av dif neg
D63486_at	KIAA0152	KIAA0152 gene, :KIAA0152 gen	av dif neg
D63851_at	D63851	unc-18 homologue,	av dif neg
D78129_at	HUMHL1115B	squalene epoxidase,	av dif neg
D78275_at	PSMC6	proteasome subunit p42, :pro	av dif neg
D79205_at	D79205	ribosomal protein L39,	av dif neg
D79984_s_at	D79984	KIAA0162 gene,	av dif neg
D79984_s_at	D79984	KIAA0162 gene,	av dif neg
D80002_at	D80002	KIAA0180 gene,	av dif neg
D82345_at	D82345	NB thymosin beta,	av dif neg
D86425_at	D86425	osteonidogen,	av dif neg
D86974_at	D86974	KIAA0220 gene, : " KIAA0220 "	av dif neg
D86985_at	KIAA0232	KIAA0232 gene, :KIAA0232 gen	av dif neg
D87258_at	D87258	serin protease with IGF-bindi	av dif neg
D87735_at	RPL14	ribosomal protein L14, :ribo	av dif neg
D87953_at	D87953	RTP, : "RTP," complete cds	av dif neg
D89052_at	ATP6F	proton-ATPase-like protein,	av dif neg
HG1034-HT1034_f_at	<empty>	<empty>	av dif neg
HG1400-HT1400_s_at	<empty>	<empty>	av dif neg
HG1428-HT1428_s_at	HG1428-HT1428	: ""Globin," " Beta"	av dif neg
HG1428-HT1428_s_at	HG1428-HT1428	: ""Globin," " Beta"	av dif neg
HG1515-HT1515_f_at	HG1515-HT1515	:Transcription Factor Btf3b	av dif neg
HG1515-HT1515_f_at	HG1515-HT1515	:Transcription Factor Btf3b	av dif neg
HG1614-HT1614_at	HG1614-HT1614	:Protein Phosphatase "1," Alp	av dif neg
HG1614-HT1614_at	HG1614-HT1614	:Protein Phosphatase "1," Alp	av dif neg
HG1800-HT1823_at	<empty>	<empty>	av dif neg
HG1872-HT1907_at	<empty>	<empty>	av dif neg
HG1872-HT1907_at	<empty>	<empty>	av dif neg
HG1980-HT2023_at	<empty>	<empty>	av dif neg
HG2147-HT2217_r_at	<empty>	<empty>	av dif neg

HG2147-HT2217_r_at	<empty>	<empty>	av dif neg
HG2149-HT2219_at	<empty>	<empty>	av dif neg
HG2167-HT2237_at	<empty>	<empty>	av dif neg
HG2197-HT2287_s_at	HG2197-HT2267	: ""Collage, "" Type ""Vii, ""	av dif neg
HG2238-HT2321_s_at	HG2238-HT2321	: "Nuclear Mitotic Apparatus P	av dif neg
HG2239-HT2324_r_at	<empty>	<empty>	av dif neg
HG2239-HT2324_r_at	<empty>	<empty>	av dif neg
HG2264-HT2360_at	<empty>	<empty>	av dif neg
HG2279-HT2375_at	HG2279-HT2375	: Triosephosphate Isomerase	av dif neg
HG2566-HT4867_at	HG2566-HT4867	: Microtubule-Associated Prote	av dif neg
HG2788-HT2896_at	HG2788-HT2896	: Calcyclin	av dif neg
HG2815-HT2931_at	<empty>	<empty>	av dif neg
HG2815-HT2931_s_at	<empty>	<empty>	av dif neg
HG2815-HT4023_s_at	<empty>	<empty>	av dif neg
HG2873-HT3017_at	<empty>	<empty>	av dif neg
HG2917-HT3061_f_at	HG2917-HT3061	: "Major Histocompatibility ""	av dif neg
HG2917-HT3061_f_at	HG2917-HT3061	: "Major Histocompatibility ""	av dif neg
HG2981-HT3127_s_at	<empty>	<empty>	av dif neg
HG2994-HT4850_s_at	<empty>	<empty>	av dif neg
HG3039-HT3200_at	<empty>	<empty>	av dif neg
HG3076-HT3238_s_at	HG3076-HT3238	: "Heterogeneous Nuclear Ribon	av dif neg
HG3107-HT3283_s_at	<empty>	<empty>	av dif neg
HG3107-HT3283_s_at	<empty>	<empty>	av dif neg
HG311-HT311_at	<empty>	<empty>	av dif neg
HG3214-HT3391_at	<empty>	<empty>	av dif neg
HG3236-HT3413_f_at	<empty>	<empty>	av dif neg
HG3254-HT3431_at	<empty>	<empty>	av dif neg
HG3342-HT3519_s_at	HG3342-HT3519	: Id1	av dif neg
HG3364-HT3541_at	HG3364-HT3541	: Ribosomal Protein L37	av dif neg
HG33-HT33_at	HG33-HT33	<empty>	av dif neg
HG3484-HT3678_s_at	<empty>	<empty>	av dif neg
HG3514-HT3708_at	HG3514-HT3708	: Tropomyosin "Tm30nm," Cytosk	av dif neg
HG3543-HT3739_at	HG3543-HT3739	: Insulin-Like Growth Factor 2	av dif neg
HG3543-HT3739_at	HG3543-HT3739	: Insulin-Like Growth Factor 2	av dif neg
HG3549-HT3751_at	HG3549-HT3751	: Wilm'S Tumor-Related Protein	av dif neg
HG3570-HT3773_at	HG3570-HT3773	: Protein Phosphatase Inhibito	av dif neg
HG3576-HT3779_f_at	<empty>	<empty>	av dif neg
HG3576-HT3779_f_at	<empty>	<empty>	av dif neg
HG3731-HT4001_at	<empty>	<empty>	av dif neg
HG384-HT384_at	HG384-HT384	: Ribosomal Protein L26	av dif neg
HG384-HT384_at	HG384-HT384	: Ribosomal Protein L26	av dif neg
HG3945-HT4215_at	<empty>	<empty>	av dif neg
HG3991-HT4261_r_at	<empty>	<empty>	av dif neg
HG4020-HT4290_s_at	HG4020-HT4290	: Transglutaminase	av dif neg
HG4258-HT4528_at	<empty>	<empty>	av dif neg
HG4319-HT4589_at	HG4319-HT4589	: Ribosomal Protein L5	av dif neg
HG4338-HT4606_at	<empty>	<empty>	av dif neg
HG4533-HT4938_at	<empty>	<empty>	av dif neg
HG4542-HT4947_at	HG4542-HT4947	: Ribosomal Protein L10	av dif neg
HG4557-HT4962_r_at	<empty>	<empty>	av dif neg
HG4668-HT5083_s_at	<empty>	<empty>	av dif neg
HG4668-HT5083_s_at	<empty>	<empty>	av dif neg
HG4749-HT5197_at	<empty>	<empty>	av dif neg
HG613-HT613_at	HG613-HT613	: Ribosomal Protein S12	av dif neg
HG613-HT613_at	HG613-HT613	: Ribosomal Protein S12	av dif neg

HG821-HT821_at	<empty>	<empty>	av dif neg
HG880-HT880_at	<empty>	<empty>	av dif neg
HG880-HT880_at	<empty>	<empty>	av dif neg
HG987-HT987_at	HG987-HT987	:Mac25 :Mac25	av dif neg
J00105_s_at	HSMGLO	messenger RNA fragment for the	av dif neg
J02611_at	HUMAPOD	apolipoprotein D mRNA, :apoli	av dif neg
J02611_at	HUMAPOD	apolipoprotein D mRNA, :apoli	av dif neg
J02683_s_at	HUMATPC	ADP/ATP carrier protein mRNA,	av dif neg
J02783_at	HUMTHBP	thyroid hormone binding protei	av dif neg
J02874_at	HUMALBP	adipocyte lipid-binding protei	av dif neg
J02874_at	HUMALBP	adipocyte lipid-binding protei	av dif neg
J02902_at	HUMP2A	protein phosphatase 2A regulat	av dif neg
J02906_at	HUMCYP11F	cytochrome P45011F1 protein (\	av dif neg
J03077_s_at	HUMGLBA	co-beta glucosidase (\proactiv	av dif neg
J03242_s_at	HUMGFIL2	insulin-like growth factor II m	av dif neg
J03242_s_at	HUMGFIL2	insulin-like growth factor II m	av dif neg
J03592_at	HUMTLCA	ADP/ATP translocase mRNA, 3' e	av dif neg
J03756_at	HUMGHVA	growth hormone-variant (\GH1\)	av dif neg
J03801_f_at	HUMLSZ	lysozyme mRNA, complete cds wi	av dif neg
J03909_at	HUMIIP	gamma-interferon-inducible pro	av dif neg
J03909_at	HUMIIP	gamma-interferon-inducible pro	av dif neg
J03934_s_at	HUMNMOR	Human, NAD(P)H:menadione oxi	av dif neg
J04093_s_at	HUMUGT1FA	phenol UDP-glucuronosyltransfe	av dif neg
J04093_s_at	HUMUGT1FA	phenol UDP-glucuronosyltransfe	av dif neg
J04152_ma1_s_at	HUMGA733A	gastrointestinal tumor-associa	av dif neg
J04164_at	HUM927A	interferon-inducible protein 9	av dif neg
J04164_at	HUM927A	interferon-inducible protein 9	av dif neg
J04173_at	HUMPGAM	phosphoglycerate mutase (\PGAM	av dif neg
J04611_at	HUMANP70	lupus p70 (\Ku\ autoantigen p	av dif neg
J04615_at	HUMSNRAA	lupus autoantigen (\small nucl	av dif neg
J04617_s_at	HUMEF1A	elongation factor EF-1-alpha g	av dif neg
J04973_at	HUMCOR2M	cytochrome bc-1 complex core p	av dif neg
J05036_s_at	HUMCTSE	cathepsin E mRNA, :cathepsin	av dif neg
J05036_s_at	HUMCTSE	cathepsin E mRNA, :cathepsin	av dif neg
J05272_at	HUMIMPH	IMP dehydrogenase type 1 mRNA	av dif neg
K02405_f_at	HUMMHDC3B	MHC class II HLA-DC-3-beta gen	av dif neg
K03189_f_at	HUMCGBEL03	chorionic gonadotropin beta su	av dif pos
K03430_at	HUMC1QB2	complement C1q B-chain gene, e	av dif pos
K03430_at	HUMC1QB2	complement C1q B-chain gene, e	av dif pos
L00634_s_at	HUMFPTA	famesyl-protein transferase a	av dif pos
L02326_f_at	HUMPREBLYM	(\clone Hu lambda-17\ lambda-	av dif pos
L04270_at	HUMTNFRFP	(\clone CD18\ tumor necrosis	av dif pos
L04483_s_at	HUMRPS21X	ribosomal protein S21 (\RPS21	av dif pos
L04490_at	HUMNADH	(\clone CC8\ NADH-ubiquinone	av dif pos
L05072_s_at	HUMIFNRF1A	interferon regulatory factor 1	av dif pos
L05188_f_at	HUMSPRR2B	small proline-rich protein 2	av dif pos
L06499_at	HUMRPL37A	ribosomal protein L37a (\RPL37	av dif pos
L06505_at	HUML12A	ribosomal protein L12 mRNA, :	av dif pos
L06797_s_at	HUMGPCR	(\clone L5\ orphan G protein-	av dif pos
L06797_s_at	HUMGPCR	(\clone L5\ orphan G protein-	av dif pos
L07044_at	HUMCCDPKB	calcium/calmodulin-dependent p	av dif pos
L08666_at	HUMPORIN	porin (por\ mRNA, complete c	av dif pos
L09209_s_at	HUMAMYLOID	amyloid protein homologue mRNA	av dif pos
L10413_at	HUMFTA	famesyltransferase alpha-subu	av dif pos
L11566_at	HUMRPL18A	ribosomal protein L18 (\RPL18	av dif pos

L11672_at	HUMKRUPZN	Kruppel related zinc finger pr	av dif pos
L11708_at	HUMB17HSD	17 beta hydroxysteroid dehydro	av dif pos
L11708_at	HUMB17HSD	17 beta hydroxysteroid dehydro	av dif pos
L12711_s_at	HUMTRANSKE	transketolase \(\text{tk}\) mRNA, :"	av dif pos
L12711_s_at	HUMTRANSKE	transketolase \(\text{tk}\) mRNA, :"	av dif pos
L19493_s_at	HUMFMR1R	FMR1 gene, 3'end.	av dif pos
L19527_at	HUMRPL27	ribosomal protein L27 \(\text{RPL27}\)	av dif pos
L19688_ma1_at	HUMMIF	macrophage migration inhibitor	av dif pos
L19688_ma1_at	HUMMIF	macrophage migration inhibitor	av dif pos
L19779_at	HUMH2A2A	histone H2A.2 mRNA, :H2A hist	av dif pos
L20688_at	HUMLYGDI	GDP-dissociation inhibitor pro	av dif pos
L20941_at	HUMFERRITH	ferritin heavy chain mRNA, :f	av dif pos
L21954_at	HSPBR4	peripheral benzodiazepine rece	av dif pos
L21954_at	HSPBR4	peripheral benzodiazepine rece	av dif pos
L26247_at	HUMSUIISO	sui1 iso1 mRNA,	av dif pos
L27943_at	HUMCYDE	cytidine deaminase \(\text{CDA}\) mRNA	av dif pos
L32866_at	HUMEPR1NP	effector cell protease recepto	av dif pos
L32976_at	HUMMLK3A	protein kinase \(\text{MLK-3}\) mRNA,	av dif pos
L33075_at	HUMIQGA	ras GTPase-activating-like pro	av dif pos
L33243_at	HUMPKD1A	polycystic kidney disease 1 pr	av dif pos
L33842_ma1_at	HUMIMPDH	\(\text{clone FFE-7}\) type II inosin	av dif pos
L33842_ma1_at	HUMIMPDH	\(\text{clone FFE-7}\) type II inosin	av dif pos
L33930_s_at	HUMCD24B	CD24 signal transducer mRNA, c	av dif pos
L37127_at	HUMRPIA	RNA polymerase II mRNA, :poly	av dif pos
L38490_s_at	HUMADPRF	ADP-ribosylation factor mRNA,	av dif pos
L38928_at	HUMMETSYN	5,10-methenyltetrahydrofolate	av dif pos
L38941_at	HUMRPL34A	ribosomal protein L34 \(\text{RPL34}\)	av dif pos
L39059_at	HUMTFSL1A	transcription factor SL1 mRNA,	av dif pos
L40357_at	HUMTRIP7M	thyroid receptor interactor \(\text{}	av dif pos
L40379_at	HUMTRIP10M	thyroid receptor interactor \(\text{}	av dif pos
L40387_at	HUMTRIP14G	thyroid receptor interactor \(\text{}	av dif pos
L40392_at	HUMORFB	\(\text{clone S164}\) mRNA, 3' end of	av dif pos
L40904_at	HUMPPARGB	H. sapiens peroxisome prolifer	av dif pos
L41870_at	HUMRB1MRNA	retinoblastoma susceptibility	av dif pos
L42176_at	HUMDRAL	\(\text{clone 35.3}\) DRAL mRNA, :(\	av dif pos
L42373_at	HUMPP2A	phosphatase 2A B56-alpha \(\text{PP2}	av dif pos
L42542_at	HUMRIP1R	RLIP76 protein mRNA, :RLIP76	av dif pos
L76159_at	HUMFRG1R	FRG1 mRNA, :FSD region gene	av dif pos
L76465_at	HUMPGDHB	NAD+-dependent 15 hydroxyprost	av dif pos
L77888_at	HUMPTPC	protein tyrosine phosphatase m	av dif pos
M10612_at	HUMAPOCII	apolipoprotein C-II gene,	av dif pos
M11119_at	HUMERRNA	endogenous retrovirus envelope	av dif pos
M11147_at	HUMFERL	ferritin L chain mRNA, :feri	av dif pos
M11313_s_at	HUMA2M	alpha-2-macroglobulin mRNA, :	av dif pos
M11353_at	HUMHISH3C	H3.3 histone class C mRNA,	av dif pos
M12529_at	HUMAPOE	apolipoprotein E mRNA, :apoli	av dif pos
M12529_at	HUMAPOE	apolipoprotein E mRNA, :apoli	av dif pos
M12886_at	HUMTCBYY	T-cell receptor active beta-ch	av dif pos
M12886_at	HUMTCBYY	T-cell receptor active beta-ch	av dif pos
M13207_at	HUMCSFGMA	granulocyte-macrophage colony-	av dif pos
M13560_s_at	HUMIAIG8	la-associated invariant gamma-	av dif pos
M13666_at	HUMCMYBB	c-myb mRNA, 3' end.	av dif pos
M13755_at	HUMIFN15K	interferon-induced 17-kDa/15-k	av dif pos
M13829_s_at	HUMPKS	putative raf related protein	av dif pos
M13829_s_at	HUMPKS	putative raf related protein	av dif pos



M13903_at	HUMINV2	involucrin gene, exon 2. :invo	av dif pos
M13929_s_at	HUMMYCPOA	c-myc-P64 mRNA, initiating fro	av dif pos
M13929_s_at	HUMMYCPOA	c-myc-P64 mRNA, initiating fro	av dif pos
M13934_cds2_at	HUMRPS14	ribosomal protein S14 gene, :	av dif pos
M13955_at	HUMKERMII	mesothelial keratin K7 \type	av dif pos
M14199_s_at	HUMLAMR	laminin receptor \2H5 epitope	av dif pos
M14199_s_at	HUMLAMR	laminin receptor \2H5 epitope	av dif pos
M14328_s_at	HUMENOA	alpha enolase mRNA, :enolase	av dif pos
M14483_ma1_s_at	HUMTHYMAA	prothymosin alpha mRNA,	av dif pos
M14676_at	HUMSLK	src-like kinase \s(lk) mRNA,	av dif pos
M14676_at	HUMSLK	src-like kinase \s(lk) mRNA,	av dif pos
M15395_at	HUMLAP	leukocyte adhesion protein \L	av dif pos
M15681_at	HUMRPZH21	ribosomal protein mRNA, :ribo	av dif pos
M15661_at	HUMRPZH21	ribosomal protein mRNA, :ribo	av dif pos
M16038_at	HUMLYN	lyn mRNA encoding a tyrosine k	av dif pos
M17733_at	HUMTHYB4	thymosin beta-4 mRNA, :thymos	av dif pos
M17863_s_at	HUMFFI2B	preproinsulin-like growth fact	av dif pos
M17863_s_at	HUMFFI2B	preproinsulin-like growth fact	av dif pos
M17885_at	HUMPPARP0	acidic ribosomal phosphoprotei	av dif pos
M17886_at	HUMPPARP1	acidic ribosomal phosphoprotei	av dif pos
M18000_at	HUMRPS17A	ribosomal protein S17 gene, :	av dif pos
M18737_ma1_at	HUMHFSP	Hanukah factor serine protease	av dif pos
M19045_f_at	HUMLSZH	lysozyme mRNA, :lysozyme ""m	av dif pos
M19159_at	HUMALPPD	placental heat-stable alkaline	av dif pos
M19159_at	HUMALPPD	placental heat-stable alkaline	av dif pos
M19301_at	HUMKAD	branched-chain alpha-keto acid	av dif pos
M19878_s_at	HUMCALB01	calbindin 27 gene, exons 1 and	av dif pos
M20902_at	HUMAPOCIA	apolipoprotein C-I \VLDL) ge	av dif pos
M20902_at	HUMAPOCIA	apolipoprotein C-I \VLDL) ge	av dif pos
M21142_cds2_s_at	HUMGNAS6	guanine nucleotide-binding pro	av dif pos
M21142_cds2_s_at	HUMGNAS6	guanine nucleotide-binding pro	av dif pos
M21186_at	HUMNCBLCA	neutrophil cytochrome b light	av dif pos
M21186_at	HUMNCBLCA	neutrophil cytochrome b light	av dif pos
M21302_at	HUMSPR2B	small proline rich protein \s	av dif pos
M21984_at	HUMTRT	\(clone PWHTnT16) skeletal mu	av dif pos
M22490_at	HUMBMP2B	bone morphogenetic protein-2B	av dif pos
M22960_at	HUMPPR	protective protein mRNA, :pro	av dif pos
M23178_s_at	HUMG0S19A	homologue-1 of gene encoding a	av dif pos
M23613_at	HUMNPM	nucleophosmin mRNA, :nucleoph	av dif pos
M24194_at	HUMMHBA123	MHC protein homologous to chic	av dif pos
M24194_at	HUMMHBA123	MHC protein homologous to chic	av dif pos
M24485_s_at	HUMGSTP1G	\(clone pHGST-pi) glutathione	av dif pos
M24486_s_at	HUMPYHBASA	prolyl 4-hydroxylase alpha sub	av dif pos
M25079_s_at	HUMBETGLA	sickle cell beta-globin mRNA,	av dif pos
M25079_s_at	HUMBETGLA	sickle cell beta-globin mRNA,	av dif pos
M25280_at	HUMLNHR	lymph node homing receptor mRN	av dif pos
M26311_s_at	HUMCFA	cystic fibrosis antigen mRNA,	av dif pos
M26311_s_at	HUMCFA	cystic fibrosis antigen mRNA,	av dif pos
M26665_s_at	HUMHIS2X	histatin 2 \HIS2) mRNA, :hi	av dif pos
M26708_s_at	HUMPTAA	prothymosin alpha mRNA \ProT-	av dif pos
M26730_s_at	HUMQBPC6	mitochondrial ubiquinone-bindi	av dif pos
M27281_at	HUMVFP	vascular permeability factor m	av dif pos
M27749_r_at	HUMIGLR141	immunoglobulin-related 14.1 pr	av dif pos
M27749_r_at	HUMIGLR141	immunoglobulin-related 14.1 pr	av dif pos
M27826_at	HUMRTLH3	endogenous retroviral protease	av dif pos

M27891_at	HUMCYS3A3	cystatin C (CST3) gene, exon	av dif pos
M28212_at	HUMRAB6A	GTP-binding protein (RAB6) m	av dif pos
M28882_s_at	HUMMUC18B	MUC18 glycoprotein mRNA, :mel	av dif pos
M28882_s_at	HUMMUC18B	MUC18 glycoprotein mRNA, :mel	av dif pos
M29335_at	HUMMHDOA	MHC class II DO-alpha mRNA,	av dif pos
M29335_at	HUMMHDOA	MHC class II DO-alpha mRNA,	av dif pos
M29610_s_at	HUMGLYE	glycophorin E mRNA, :glycopho	av dif pos
M30818_at	HUMMXB	interferon-induced cellular re.	av dif pos
M30938_at	HUMKUP	Ku (p70/p80) subunit mRNA,	av dif pos
M31303_ma1_at	HUMOP18A	oncoprotein 18 (Op18) gene,	av dif pos
M31303_ma1_at	HUMOP18A	oncoprotein 18 (Op18) gene,	av dif pos
M31520_at	HUMRPS24A	ribosomal protein S24 mRNA.	av dif pos
M31520_ma1_s_at	HUMRPS24A	ribosomal protein S24 mRNA. :r	av dif pos
M31627_at	HUMHXB1	X box binding protein-1 (XBP-	av dif pos
M31994_at	HUMALDC13	aldehyde dehydrogenase (ALDH1	av dif pos
M32053_at	HUMH19	H19 RNA gene,	av dif pos
M32304_s_at	HUMMET	metalloproteinase inhibitor mR	av dif pos
M32405_at	HUMRIGA	homologue of rat insulinoma ge	av dif pos
M32886_at	HUMSRICPA	sorcin CP-22 mRNA, :sorcin :s	av dif pos
M33600_f_at	HUMMHDR1C	MHC class II HLA-DR-beta-1 (H	av dif pos
M33680_at	HUMTAPA1	26-kDa cell surface protein TA	av dif pos
M33684_s_at	HUMPPPB1A5	(clone lambda-16-1) non-rece	av dif pos
M34041_at	HUMADRA2RA	alpha-2-adrenergic receptor (	av dif pos
M34182_at	HUMPRKACG	testis-specific protein kinase	av dif pos
M34516_at	HUMIGL122	omega light chain protein 14.1	av dif pos
M34516_r_at	HUMIGL122	omega light chain protein 14.1	av dif pos
M34516_r_at	HUMIGL122	omega light chain protein 14.1	av dif pos
M34715_at	HUMPSBGAA	pregnancy-specific beta-1-glyc	av dif pos
M34996_s_at	HUMDQA1A	MHC cell surface glycoprotein	av dif pos
M34996_s_at	HUMDQA1A	MHC cell surface glycoprotein	av dif pos
M35198_at	HUMINTB6A	integrin B-6 mRNA, :integrin,	av dif pos
M35252_at	HUMCOOTAA	CO-029. :transmembrane 4 super	av dif pos
M35878_at	HUMIBP3	insulin-like growth factor-bin	av dif pos
M36072_at	HUMRPL7A	ribosomal protein L7a (surf 3	av dif pos
M37238_s_at	HUMPLC	phospholipase C mRNA, :phosph	av dif pos
M37245_at	HUMIGCTL3	Ig superfamily cytotoxic T-lym	av dif pos
M37245_at	HUMIGCTL3	Ig superfamily cytotoxic T-lym	av dif pos
M37435_at	HUMCSDF1	macrophage-specific colony-sti	av dif pos
M37583_at	HUMHIS2AZ	histone (H2A.Z) mRNA, :hist	av dif pos
M37815_cds1_at	HUMCD284	T-cell membrane glycoprotein C	av dif pos
M38449_s_at	HUMTGFB	transforming growth factor-bet	av dif pos
M38690_at	HUMANTCD9	CD9 antigen mRNA, :CD9 antige	av dif pos
M38890_at	HUMANTCD9	CD9 antigen mRNA, :CD9 antige	av dif pos
M54995_at	HUMCTAP3	connective tissue activation p	av dif pos
M55409_s_at	HUMPANCAN	pancreatic tumor-related prote	av dif pos
M55409_s_at	HUMPANCAN	pancreatic tumor-related prote	av dif pos
M57293_at	HUMPTHRA	parathyroid hormone-related pe	av dif pos
M57399_at	HUMHBNF1	nerve growth factor (HBNF-1)	av dif pos
M57399_at	HUMHBNF1	nerve growth factor (HBNF-1)	av dif pos
M57466_s_at	HUMMHDP	MHC class II HLA-DP light chai	av dif pos
M57466_s_at	HUMMHDP	MHC class II HLA-DP light chai	av dif pos
M57710_at	HUMBPIGE	IgE-binding protein (epsilon-	av dif pos
M58378_cds1_at	HUMSYN1E13	synapsin I (SYN1) gene, exon	av dif pos
M58525_s_at	HUMCOMTC	catechol-O-methyltransferase	av dif pos
M58525_s_at	HUMCOMTC	catechol-O-methyltransferase	av dif pos

M59216_s_at	UMGABRB1S5	gamma-aminobutyric acid-A \GA	av dif pos
M59371_at	HUMECK	protein tyrosine kinase mRNA,	av dif pos
M59807_at	HUMNK4	NK4 mRNA, :natural killer cel	av dif pos
M59830_at	HUMMHSP2	MHC class III HSP70-2 gene \H	av dif pos
M59911_at	HUMINTA3A	integrin alpha-3 chain mRNA,	av dif pos
M60483_ma1_s_at	HUMPP2AA	protein phosphatase 2A catalyt	av dif pos
M60854_at	HUMSRAA	ribosomal protein S18 mRNA, :	av dif pos
M61916_at	HUMLAM101	laminin B1 chain mRNA, :lamin	av dif pos
M62403_s_at	HUMIGFBP5	insulin-like growth factor bin	av dif pos
M62403_s_at	HUMIGFBP5	insulin-like growth factor bin	av dif pos
M62486_at	UMPRPC4S12	C4b-binding protein gene, exon	av dif pos
M63258_at	HUMCDR2AA	major Yo paraneoplastic antige	av dif pos
M63379_at	HUMTRPM2A4	TRPM-2 protein gene, exons 7,8	av dif pos
M63438_s_at	HUMIGGK	Ig rearranged gamma chain mRNA	av dif pos
M63438_s_at	HUMIGGK	Ig rearranged gamma chain mRNA	av dif pos
M63573_at	HUMSCYLP	secreted cyclophilin-like prot	av dif pos
M63589_at	HUMSCL7	stem cell leukemia gene produc	log neg
M64347_at	HUMFGFLR	novel growth factor receptor m	log neg
M64347_at	HUMFGFLR	novel growth factor receptor m	log neg
M64673_at	HUMHSF1	heat shock factor 1 \TCF5\ m	log neg
M64716_at	HUMRPS25	ribosomal protein S25 mRNA, :	log neg
M64992_at	HUMPROS30	prosome protein P30-33K \pro	log neg
M65292_s_at	HUMHAAA	factor H homologue mRNA, :fa	log neg
M65292_s_at	HUMHAAA	factor H homologue mRNA, :fa	log neg
M69023_at	HUMGGEFERA	globin gene.	log neg
M69066_at	HUMMOESIN	moesin mRNA, :moesin :moesin	log neg
M69238_at	HUMARNTA	aryl hydrocarbon receptor nucl	log neg
M73077_at	HUMGRF1A	glucocorticoid receptor repres	log neg
M73239_s_at	HUMSCFA1	\clone SF1\ hepatocyte growt	log neg
M73547_at	HUMPOLLA	polyposis locus \DP1 gene\ m	log neg
M74093_at	HUMCLNC	cyclin mRNA, :cyclin E1	log neg
M74297_at	HUMHOX14	homeobox 1.4 protein mRNA, :h	log neg
M74715_s_at	HUMIDNAL	alpha-L-iduronidas \IDUA\ mR	log neg
M77232_ma1_at	HUMRPS6B	ribosomal protein S6 gene, com	log neg
M77836_at	HUMP5CR	pyrroline 5-carboxylate reduct	log neg
M80244_at	HUME16GEN	E16 mRNA,	log neg
M80254_at	HUMCYP	cyclophilin isoform \hCyP3\	log neg
M80359_at	HUMP78A	protein p78 mRNA, :MAP/microt	log neg
M80563_at	HUMCAPL	CAPL protein mRNA, :S100 calc	log neg
M80563_at	HUMCAPL	CAPL protein mRNA, :S100 calc	log neg
M80899_at	HUMAHNAKA	novel protein AHNAK mRNA, part	log neg
M81750_at	HUMMCNDA	myeloid cell nuclear different	log neg
M81757_at	HUMS19RP	S19 ribosomal protein mRNA,	log neg
M81883_at	HUMGAD67A	glutamate decarboxylase \GAD6	log neg
M83181_at	HUMHTRB	serotonin receptor gene, :5-h	log neg
M84424_at	HUMCTSE09	cathepsin E \CTSE\ gene, exo	log neg
M84711_at	HUMFTE1A	v-fos transformation effector	log neg
M85289_at	HUMHSPG2B	heparan sulfate proteoglycan	log neg
M86400_at	HUMPHPLA2	phospholipase A2 mRNA, :tyros	log neg
M86699_at	HUMTTK	kinase \TTK\ mRNA, :TTK pro	log neg
M86737_at	HUMHMGBP	high mobility group box \SSRP	log neg
M87789_s_at	HUMIGHEPAH	\hybridoma H210\ anti-hepati	log neg
M87789_s_at	HUMIGHEPAH	\hybridoma H210\ anti-hepati	log neg
M90356_f_at	HUMBTDF	BTF3 protein homologue gene,	log neg
M90656_at	HUMGCSH	gamma-glutamylcysteine synthet	log neg

M91670_at	HUME2EPI	ubiquitin carrier protein \E2	log neg
M94856_at	HUMFABPHA	fatty acid binding protein hom	log neg
M94856_at	HUMFABPHA	fatty acid binding protein hom	log neg
M94880_f_at	HUMHLAAX	MHC class I \HLA-A*8001\ mRNA	log neg
M96233_s_at	HUMGSTM4A	glutathione transferase class	log neg
M96233_s_at	HUMGSTM4A	glutathione transferase class	log neg
M96326_ma1_at	HUMAZCDI	azurocidin gene,	log neg
M96956_at	HUMTDGF3A	\(clone CR-3\) teratocarcinoma	log neg
M97796_s_at	HUMID2X	helix-loop-helix protein \Id-	log neg
M97815_at	HUMCRABP02	retinoic acid-binding protein	log neg
S34389_at	HMOX2	heme oxygenase-2 [human, kidney]	log neg
S58544_at	SPAG1	75 kDa infertility-related spe	log neg
S69115_at	S69115	granulocyte colony-stimulating	log neg
S69115_at	S69115	granulocyte colony-stimulating	log neg
S71043_ma1_s_at	S71043	Ig alpha 2=immunoglobulin A he	log neg
S71043_ma1_s_at	S71043	Ig alpha 2=immunoglobulin A he	log neg
S73591_at	VDUP1	brain-expressed HHCPA78 homolo	log neg
S73591_at	VDUP1	brain-expressed HHCPA78 homolo	log neg
S75463_at	S75463	P43=mitochondrial elongation f	log neg
S77356_at	S77356	transcript ch21=oligomycin sen	log neg
S77582_at	S77582	HERVK10/HUMMTV reverse transcr	log neg
S78234_at	S78234	nuc2 homolog [human, fibroblas	log neg
S78771_s_at	S78771	NAT=CpG island-associated gene	log neg
S79219_s_at	S79219	metastasis-associated gene [hu	log neg
S79522_at	S79522	ubiquitin carboxyl extension p	log neg
S80562_at	CNN3	acidic calponin [human, kidney	log neg
S82297_at	S82297	beta 2-microglobulin {11bp del	log neg
S82597_ma1_s_at	S82597	UDP-GalNAc:polypeptide	log neg
S90469_at	POR	cytochrome P450 reductase [hum	log neg
U00947_s_at	U00947	clone C4E 3.2 \CAC)n\ (GTG\)	log neg
U03397_s_at	U03397	receptor protein 4-1BB mRNA,	log neg
U03398_at	TNFSF9	receptor 4-1BB ligand mRNA, :	log neg
U04241_at	U04241	homolog of Drosophila enhancer	log neg
U04313_at	PI5	maspin mRNA, :protease inhibi	log neg
U05340_at	CDC20	p55CDC mRNA, :cell division c	log neg
U06155_s_at	U06155	chromosome 1q subtelomeric seq	log neg
U06863_at	U06863	folliculin-related protein pr	log neg
U06863_at	U06863	folliculin-related protein pr	log neg
U09117_at	PLCD1	phospholipase C delta 1 mRNA,	log neg
U09303_at	EFNB1	T cell leukemia LERK-2 \EPLG2	log neg
U09813_at	ATP5G3	mitochondrial ATP synthase sub	log neg
U09953_at	U09953	ribosomal protein L9 mRNA, :r	log neg
U10362_at	U10362	GP36b glycoprotein mRNA,	log neg
U10492_at	HSMOX1	Mox1 protein \MOX1\ mRNA, :	log neg
U12404_at	U12404	Csa-19 mRNA,	log neg
U12404_at	U12404	Csa-19 mRNA,	log neg
U12465_at	U12465	ribosomal protein L35 mRNA,	log neg
U12779_at	U12779	MAP kinase activated protein k	log neg
U14391_at	MYO1C	myosin-IC mRNA, :myosin IC	log neg
U14588_at	PXN	paxillin mRNA, :paxillin :pax	log neg
U14968_at	U14968	ribosomal protein L27a mRNA,	log neg
U14969_at	U14969	ribosomal protein L28 mRNA, :	log neg
U14970_at	U14970	ribosomal protein S5 mRNA, :r	log neg
U14971_at	U14971	ribosomal protein S9 mRNA, :r	log neg
U14971_at	U14971	ribosomal protein S9 mRNA, :r	log neg

U14972_at	U14972	ribosomal protein S10 mRNA,	log neg
U14973_at	U14973	ribosomal protein S29 mRNA, :	log neg
U15177_at	U15177	cosmid CRI-JC2015 at D10S289 i	log neg
U16660_at	ECH1	peroxisomal enoyl-CoA hydratase	log neg
U16799_s_at	U16799	Na,K-ATPase beta-1 subunit mRNA	log neg
U16881_at	KCNJ2	inward rectifying potassium ch	log neg
U17077_at	BENE	BENE mRNA, :BENE protein	log neg
U17760_ma1_at	HSLAMB3S17	laminin S B3 chain \LAMB3\ g	log neg
U19247_ma1_s_at	HSINFGRA7	interferon-gamma receptor alph	log neg
U19251_s_at	NAIP	neuronal apoptosis inhibitory	log neg
U20657_at	USP4	ubiquitin protease \Unph\ pr	log neg
U20734_s_at	U20734	transcription factor junB \ju	log neg
U20734_s_at	U20734	transcription factor junB \ju	log neg
U20758_ma1_at	U20758	osteopontin gene,	log neg
U22376_cds2_s_at	MYB	\(c-myb\) gene, complete prima	log neg
U22431_s_at	U22431	hypoxia-inducible factor 1 alp	log neg
U22970_ma1_s_at	U22970	interferon-inducible peptide	log neg
U22970_ma1_s_at	U22970	interferon-inducible peptide	log neg
U24183_s_at	U24183	phosphofructokinase \PFKM\ m	log neg
U24389_s_at	HSLYOXL7	lysyl oxidase-like protein gen	log neg
U25789_at	U25789	ribosomal protein L21 mRNA, :	log neg
U27333_at	U27333	alpha \1,3\ fucosyltransferase	log neg
U27333_at	U27333	alpha \1,3\ fucosyltransferase	log neg
U27831_at	U27831	striatum-enriched phosphatase	log neg
U29175_at	U29175	transcriptional activator \BR	log neg
U29953_ma1_at	PEDF	pigment epithelium-derived fac	log neg
U30827_s_at	U30827	splicing factor SRp40-3 \SRp4	log neg
U30888_at	USP14	tRNA-guanine transglycosylase	log neg
U30888_at	USP14	tRNA-guanine transglycosylase	log neg
U31814_at	HDAC2	transcriptional regulator homo	log neg
U31875_at	HEP27	Hep27 protein mRNA, :short-ch	log neg
U32944_at	PIN	cytoplasmic dynein light chain	log neg
U34880_at	U34880	DPH2L mRNA, :DPH2L "mRNA," co	log neg
U36341_ma1_at	U36341	Xq28 cosmid, creatine transpor	log neg
U36764_at	U36764	TGF-beta receptor interacting	log neg
U37012_at	U37012	cleavage and polyadenylation s	log neg
U37146_at	U37146	silencing mediator of retinoid	log neg
U37408_at	CTBP1	phosphoprotein CtBP mRNA, :C-	log neg
U37689_at	POLR2H	RNA polymerase II subunit \hs	log neg
U38276_at	SEMA3F	semaphorin III family homolog	log neg
U38276_at	SEMA3F	semaphorin III family homolog	log neg
U39400_at	C11orf4	NOF1 mRNA, :chromosome 11 op	log neg
U40998_at	U40998	retinal protein \HRG4\ mRNA,	log neg
U41060_at	U41060	breast cancer, estrogen regula	log neg
U41766_s_at	ADAM9	metalloprotease/disintegrin/cy	log neg
U42359_at	HUMN33S10	N33 protein form 1 \N33\ gen	log neg
U43328_at	U43328	link protein mRNA,	log neg
U43901_ma1_s_at	U43901	37 kD laminin receptor precurs	log neg
U43901_ma1_s_at	U43901	37 kD laminin receptor precurs	log neg
U45448_s_at	U45448	P2x1 receptor mRNA,	log neg
U48705_ma1_s_at	U48705	receptor tyrosine kinase DDR g	log neg
U48936_at	U48936	amiloride-sensitive epithelial	log neg
U48936_at	U48936	amiloride-sensitive epithelial	log neg
U49395_at	U49395	ionotropic ATP receptor P2X5a	log neg
U49869_ma1_at	UBB	ubiquitin gene, :ubiquitin B	log neg

U50523_at	U50523	BRCA2 region, mRNA sequence CG	log neg
U50929_at	BHMT	betaine:homocysteine methyltra	log neg
U52154_at	KCNJ5	G protein-coupled inwardly rec	log neg
U52154_at	KCNJ5	G protein-coupled inwardly rec	log neg
U52696_s_at	U52696	adrenal Creb-rp homolog \(\Creb	log neg
U53786_at	U53786	envoplakin \(\EVPL\) mRNA, :en	log neg
U55054_at	HSKCC	K-Cl cotransporter \(\hKCC1\) m	log neg
U55054_at	HSKCC	K-Cl cotransporter \(\hKCC1\) m	log neg
U57341_r_at	U57341	neurofilament triplet L protei	log neg
U57342_at	MLF2	myelodysplasia/myeloid leukemi	log neg
U57629_at	RPGR	retinitis pigmentosa GTPase re	log neg
U58682_at	U58682	ribosomal protein S28 mRNA, :	log neg
U60975_at	U60975	hybrid receptor gp250 precurs	log neg
U60975_at	U60975	hybrid receptor gp250 precurs	log neg
U62739_at	BCAT2	branched-chain amino acid amin	log neg
U62962_at	EIF3S6	Int-6 mRNA, :eukaryotic trans	log neg
U63541_at	U63541	mRNA expressed in HC/HCC liver	log neg
U64863_at	PDCD1	hPD-1 \(\hPD-1\) mRNA, :progra	log neg
U66061_cds3_at	U66061	germline T-cell receptor beta	log neg
U66406_at	EFNB3	putative EPH-related PTK recep	log neg
U66616_at	SMARCC2	SWI/SNF complex 170 KDa subuni	log neg
U66616_at	SMARCC2	SWI/SNF complex 170 KDa subuni	log neg
U67092_s_at	U67092	ataxia-telangiectasia locus pr	log neg
U67156_at	MEKK5	mitogen-activated kinase kinas	log neg
U68105_s_at	HSPABPS13	poly(A)-binding protein \(\PA	log neg
U70732_ma1_at	GPT	glutamate pyruvate transaminas	log neg
U70867_at	SLC21A2	prostaglandin transporter hPGT	log neg
U73379_at	U73379	cyclin-selective ubiquitin car	log neg
U73379_at	U73379	cyclin-selective ubiquitin car	log neg
U73824_at	EIF4G2	p97 mRNA, :eukaryotic transla	log neg
U73843_at	U73843	epithelial-specific transcript	log neg
U77456_at	NAP1L4	nucleosome assembly protein 2	log neg
U77846_ma1_at	U77846	elastin gene, partial cds and	log neg
U77846_ma1_s_at	U77846	elastin gene, partial cds and	log neg
U77846_ma1_s_at	U77846	elastin gene, partial cds and	log neg
U78027_ma3_at	U78027	Bruton's tyrosine kinase \(\BTK	log neg
U78095_at	U78095	placental bikunin mRNA, :Plac	log neg
U78678_at	U78678	thioredoxin mRNA, nuclear gene	log neg
U78722_at	U78722	zinc finger protein 165 \(\Zpf1	log neg
U78735_at	U78735	ABC3 mRNA,	log neg
U79256_at	U79256	clone 23719 mRNA sequence,	log neg
U79280_at	U79280	clone 23575 mRNA,	log neg
U79299_at	U79299	neuronal olfactomedin-related	log neg
U80184_ma1_at	FLII	FLII gene, :flightless I \(\Dr	log neg
U81984_at	EPAS1	endothelial PAS domain protein	log neg
U82169_at	FZD9	frizzled homolog \(\FZD3\) mRNA	log neg
U82169_at	FZD9	frizzled homolog \(\FZD3\) mRNA	log neg
U82818_at	U82818	UCP3S mRNA,	log neg
U83246_at	CPNE1	copine I mRNA, :copine I :cop	log neg
U83598_at	U83598	death domain receptor 3 solubl	log neg
U86136_at	U86136	telomerase-associated protein	log neg
U87972_at	U87972	NAD+-isocitrate dehydrogenase	log pos
U88964_at	ISG20	HEM45 mRNA, :interferon stimu	log pos
U89326_at	U89326	bone morphogenetic protein rec	log pos
U90426_at	DDXL	nuclear RNA helicase, :nuclea	log pos

U90552_s_at	U90552	butyrophilin (BTF5) mRNA, :	log pos
U90913_at	U90913	clone 23665 mRNA sequence. :cl	log pos
U90916_at	U90916	clone 23815 mRNA sequence. :cl	log pos
U94747_at	HAN11	WD repeat protein HAN11 mRNA,	log pos
U95740_ma1_at	U95740	Chromosome 16 BAC clone CIT987	log pos
V00571_ma1_at	HSPCRF	gene encoding prepro form of c	log pos
V00572_at	HSPGK1	mRNA encoding phosphoglycerate	log pos
V00594_s_at	HSTHIO	metallothionein from cadmium-	log pos
V01512_ma1_at	HSCFOS	cellular oncogene c-fos (comp	log pos
X00274_at	HSHL07	gene for HLA-DR alpha heavy ch	log pos
X00274_at	HSHL07	gene for HLA-DR alpha heavy ch	log pos
X00351_f_at	HSAC07	beta-actin.	log pos
X00368_xpl2_at	HSPROL1	prolactin gene 5' region.	log pos
X01677_f_at	HSGAPDR	liver glyceraldehyde-3-phosph	log pos
X02152_at	HSLDHAR	lactate dehydrogenase-A (LDH	log pos
X02596_at	HSBCRR	bcr (breakpoint cluster regi	log pos
X03068_f_at	HSHLDQWB	HLA-D class II antigen DQw1.1	log pos
X03100_cds2_at	HSHLASBA	HLA-SB(DP) alpha gene. :HLA-	log pos
X03100_cds2_at	HSHLASBA	HLA-SB(DP) alpha gene. :HLA-	log pos
X03342_at	HSRPL32	ribosomal protein L32. :ribos	log pos
X03689_s_at	HSEFTUR5	mRNA fragment for elongation f	log pos
X03689_s_at	HSEFTUR5	mRNA fragment for elongation f	log pos
X04347_s_at	HSUPIR1	liver mRNA fragment DNA bindin	log pos
X04347_s_at	HSUPIR1	liver mRNA fragment DNA bindin	log pos
X06614_at	HSRRA	receptor of retinoic acid. :r	log pos
X06617_at	HSRPS11	ribosomal protein S11. :ribo	log pos
X06985_at	HSOXYGR	heme oxygenase. :heme oxygena	log pos
X06985_at	HSOXYGR	heme oxygenase. :heme oxygena	log pos
X07696_at	HSKERC15	cytokeratin 15. :keratin 15 :	log pos
X07730_at	HSPSA	prostate specific antigen. :	log pos
X07730_at	HSPSA	prostate specific antigen. :	log pos
X12447_at	HSALDOA	aldolase A gene (EC 4.1.2.13	log pos
X12671_ma1_at	HSHNRNPA	gene for heterogeneous nuclear	log pos
X12671_ma1_at	HSHNRNPA	gene for heterogeneous nuclear	log pos
X12876_s_at	HSKER18A	mRNA fragment for cytokeratin	log pos
X12876_s_at	HSKER18A	mRNA fragment for cytokeratin	log pos
X13334_at	HSCD14R	CD14 myelid cell-specific leu	log pos
X13546_ma1_at	HSHMG17G	HMG-17 gene for non-histone ch	log pos
X13794_ma1_at	HSLDHB1	lactate dehydrogenase B gene e	log pos
X13794_ma1_at	HSLDHB1	lactate dehydrogenase B gene e	log pos
X14008_ma1_f_at	HSLYSOZY	lysozyme gene (EC 3.2.1.17).	log pos
X15940_at	HSRPL31	ribosomal protein L31. :ribos	log pos
X16064_at	HSTUMP	translationally controlled tu	log pos
X16832_at	HSCATHH	cathepsin H (EC 3.4.22.16).	log pos
X17042_at	HSHPCP	hematopoietic proteoglycan cor	log pos
X17206_at	HSLREP3	LLRep3. : LLRep3	log pos
X51345_at	HSJUNB	jun-B JUN-B protein. :jun B p	log pos
X51466_at	HSEF2	elongation factor 2. : elonga	log pos
X51688_at	HSCYCLINA	cyclin A.	log pos
X52003_at	HSPS2MKN	pS2 protein gene. :trefoil fac	log pos
X52003_at	HSPS2MKN	pS2 protein gene. :trefoil fac	log pos
X52426_s_at	HSCYTK	cytokeratin 13. : cytokeratin	log pos
X52426_s_at	HSCYTK	cytokeratin 13. : cytokeratin	log pos
X52851_ma1_at	HSCPH70	cyclophilin gene for cyclophil	log pos
X52966_at	HSL35A	ribosomal protein L35a. :ribo	log pos

X53586_ma1_at	HSINTA6R	integrin alpha 6. :integrin,	log pos
X53587_at	HSINTB4R	integrin beta 4. : integrin b	log pos
X53777_at	HSL23MR	L23 putative ribosomal protel	log pos
X54232_at	HSGLYPIC	heparan sulfate proteoglycan	log pos
X54887_at	HSCYSTATS	cystatin S.	log pos
X54942_at	HSCKSHS2	ckshs2 Cks1 protein homologue	log pos
X54942_at	HSCKSHS2	ckshs2 Cks1 protein homologue	log pos
X55005_ma1_at	HSCERBAR	c-erbA-1 thyroid hormone rece	log pos
X55715_at	HSUMS3	Hums3 40S ribosomal protein s	log pos
X55954_at	HSL17ARP	HL23 ribosomal protein homolo	log pos
X56494_at	HSPKM12	M gene for M1-type and M2-type	log pos
X56887_s_at	HSAUTNOR	autoantigen NOR-90.	log pos
X56807_at	HSDGII	DSC2 desmocollins type 2a and	log pos
X56841_at	HSHLAE	HLA-E gene. :major histocompat	log pos
X56932_at	HS23KDHBP	23 kD highly basic protein.	log pos
X57351_at	HS18D	1-8D gene from interferon-indu	log pos
X57351_at	HS18D	1-8D gene from interferon-indu	log pos
X57351_s_at	HS18D	1-8D gene from interferon-indu.	log pos
X57809_s_at	HSIGVL009	rearranged immunoglobulin lamb	log pos
X57809_s_at	HSIGVL009	rearranged immunoglobulin lamb	log pos
X57959_at	HSRBPRL7A	ribosomal protein L7. :riboso	log pos
X58072_at	HSGATA3R	hGATA3 trans-acting T-cell sp	log pos
X59373_at	HSHOX4D	HOX4D a homeobox protein. :ho	log pos
X59798_at	HSPRAD1CY	PRAD1 cyclin. :PRAD1 cyclin	log pos
X60489_at	HSEF1B	elongation factor-1-beta.	log pos
X61587_at	HSRHOG	rhoG GTPase. :ras homolog gen	log pos
X62320_at	HSEPIT1	epithelin 1 and 2. : epitheli	log pos
X62466_at	HSCAMPAT1	CAMPATH-1 \ (CDw52\ ) antigen.	log pos
X62466_at	HSCAMPAT1	CAMPATH-1 \ (CDw52\ ) antigen.	log pos
X62654_ma1_at	HSMECDAG	gene for Me491/CD63 antigen. :	log pos
X62691_at	HSRPRNA	ribosomal protein \ (homologuo	log pos
X63359_at	HSUGT2BIO	UGT2BIO udp glucuronosyltrans	log pos
X63527_at	HSRPL19	ribosomal protein L19. :ribos	log pos
X63629_at	HSPCAD	p cadherin. :cadherin 3, P-ca	log pos
X64229_at	HSDEK9	dek mRNA. :DEK gene	log pos
X64707_at	HSBBC1	BBC1 mRNA.	log pos
X65614_at	HSS100PCB	calcium-binding protein S100P	log pos
X66114_ma1_at	HS2OXOC	gene for 2-oxoglutarate carrie	log pos
X66363_at	HSSTHPKD	mRNA PCTAIRE-1 for serine/thre	log pos
X66363_at	HSSTHPKD	mRNA PCTAIRE-1 for serine/thre	log pos
X66899_at	HSEWS	EWS mRNA. :Ewing sarcoma break	log pos
X67247_ma1_at	HSRPS8	rpS8 gene for ribosomal protei	log pos
X67325_at	HSP27	p27 mRNA. :interferon, alpha-i	log pos
X67951_at	HSPAG	proliferation-associated gene	log pos
X68314_at	HSGPGI	glutathione peroxidase-GI. :g	log pos
X68314_at	HSGPGI	glutathione peroxidase-GI. :g	log pos
X68688_ma1_s_at	HSZNB	ZNF33B gene.	log pos
X69150_at	HSRPS18	ribosomal protein S18. :ribos	log pos
X69391_at	HSRPL6AA	ribosomal protein L6. :riboso	log pos
X69550_at	HSRHO1	rho GDP-dissociation Inhibito	log pos
X69654_at	HSS26	ribosomal protein S26.	log pos
X70940_s_at	HSEFAC1A2	elongation factor 1 alpha-2.	log pos
X70940_s_at	HSEFAC1A2	elongation factor 1 alpha-2.	log pos
X73079_at	HSPiR	encoding Polymeric immunoglobu	log pos
X73358_s_at	HSAES1	hAES-1 mRNA. :amino-terminal e	log pos



X73460_at	HSRPL3A	ribosomal protein L3.	log pos
X73478_at	HSPTPAA	hPTPA mRNA. :hPTPA mRNA	log pos
X74819_at	HSCARTROT	cardiac troponin T.	log pos
X74819_at	HSCARTROT	cardiac troponin T.	log pos
X74929_s_at	HSKRT8	KRT8 keratin 8. :keratin 8 :K	log pos
X75252_at	HSPEABP	phosphatidylethanolamine bindi	log pos
X76534_at	HSNMB	NMB mRNA. :transmembrane glyco	log pos
X76534_at	HSNMB	NMB mRNA. :transmembrane glyco	log pos
X77794_at	HSCYCG1	cyclin G1. : cyclin G1	log pos
X78992_at	HSERF2	ERF-2 mRNA.	log pos
X79234_at	HSRPL11	ribosomal protein L11.	log pos
X79439_at	HSNOTCH3	Notch 3 DNA sequence. :Notch	log pos
X80082_at	HSSAMRNA	SA mRNA.	log pos
X80198_at	HSMLN64	MLN64 mRNA.	log pos
X80200_at	HSMLN62	MLN62 mRNA. :TNF receptor-asso	log pos
X80822_at	HSPLORF	ORF.	log pos
X80909_at	HSANAC	alpha NAC mRNA. :nascent-polyp	log pos
X82693_at	HSE48	E48 antigen. : E48 antigen	log pos
X82693_at	HSE48	E48 antigen. : E48 antigen	log pos
X83416_s_at	HSPRP2	PrP gene, exon 2. : "PrP "gene	log pos
X83492_at	HSFAS47	Fas/Apo-1 \clone pCRTM11-Fas	log pos
X83492_at	HSFAS47	Fas/Apo-1 \clone pCRTM11-Fas	log pos
X83572_at	HSARSD	ARSD gene, complete CDS. :aryl	log pos
X86809_at	HSPEA15	major astrocytic phosphoprote	log pos
X87159_at	HSSCNN1B	beta subunit of epithelial am	log pos
X87241_at	HSHFATPRO	hFat protein. :FAT tumor supp	log pos
X89416_at	HSRNAPPP5	protein phosphatase 5. :prote	log pos
X89416_at	HSRNAPPP5	protein phosphatase 5. :prote	log pos
X90846_at	HARNAMLK2	mixed lineage kinase 2.	log pos
X91103_at	HSRNAHR44	Hr44 protein.	log pos
X93036_at	HSMAT82	MAT8 protein. :phospholemma-	log pos
X94583_xpt2_r_at	HSDBIEX12	dbi/acbp gene exon 1 & 2.	log pos
X94612_at	HS2CGMPPK	type II cGMP-dependent protei	log pos
X95404_at	HSNMCFL1	non-muscle type cofilin. :cof	log pos
X95735_at	HSZYXIN2R	zyxin. :zyxin	log pos
X95808_s_at	HSDXS	protein encoded by a candidat	log pos
X98482_at	HSTNNTX11	TNNT2 gene exon 11.	log pos
X98482_r_at	HSTNNTX11	TNNT2 gene exon 11.	log pos
X98482_r_at	HSTNNTX11	TNNT2 gene exon 11.	log pos
X98534_s_at	HSVASP413	VASP gene, exons 4 to 13. : "VA	log pos
X99133_at	HSNGALGEN	NGAL gene. :lipocalin 2 \onco	log pos
X99688_at	HSTYL	mRNA from TYL gene. :pleckstri	log pos
Y00082_at	HSLCA	T200 leukocyte common antigen	log pos
Y00503_at	HSKER19	keratin 19. :keratin 19 : ker	log pos
Y00705_at	HSPSTI	pstI pancreatic secretory inh	log pos
Y00787_s_at	HSMDNCF	MDNCF \monocyte-derived neut	log pos
Y00787_s_at	HSMDNCF	MDNCF \monocyte-derived neut	log pos
Y00796_at	HSFLA1A	leukocyte-associated molecule	log pos
Y07755_at	HSS100A2	S100A2 gene, exon 1, 2 and 3.	log pos
Y07755_at	HSS100A2	S100A2 gene, exon 1, 2 and 3.	log pos
Y08374_ma1_at	Y08374	gene encoding cartilage GP-39	log pos
Y08639_at	HSTFAC	nuclear orphan receptor ROR-b	log pos
Y08976_at	HSRNAFEV	FEV protein.	log pos
Y10207_at	HSCD171	CD171 protein.	log pos
Y10871_at	HSTWISTGE	twist gene. :twist \Drosophil	log pos

Y12670_at	HSOBRGRP	leptin receptor gene-related	log pos
Z12962_at	HSRPL41	homologue to yeast ribosomal	log pos
Z19554_s_at	HSVIMENTA	vimentin gene. :vimentin gene	log pos
Z19574_ma1_at	HSCYTOK17	gene for cytokeratin 17. :gene	log pos
Z22551_at	HSKINEC	kinectin gene.	log pos
Z25749_ma1_at	HSRPS7	gene for ribosomal protein S7.	log pos
Z25884_at	HSCLC1MR	CIC-1 muscle chloride channel	log pos
Z25884_at	HSCLC1MR	CIC-1 muscle chloride channel	log pos
Z26491_s_at	HSCOMT2	gene for catechol O-methyltran	log pos
Z28407_at	HSRBPL8	ribosomal protein L8. :riboso	log pos
Z28407_at	HSRBPL8	ribosomal protein L8. :riboso	log pos
Z30643_at	HSCLCHPRA	chloride channel \ (putative)	log pos
Z32765_at	HS CD36G15	CD36 gene exon 15.	log pos
Z35402_ma1_s_at	HSECAD3	gene encoding E-cadherin, exon	log pos
Z35402_ma1_s_at	HSECAD3	gene encoding E-cadherin, exon	log pos
Z48501_s_at	HSPABPII	polyadenylate binding protein	log pos
Z48950_at	HSHH3X3B	hH3.3B gene for histone H3.3.	log pos
Z49107_s_at	Z49107	galectin.	log pos
Z49148_s_at	HSRPL29	ribosomal protein L29.	log pos
Z49148_s_at	HSRPL29	ribosomal protein L29.	log pos
Z49835_s_at	HSP2SISOM	protein disulfide isomerase.	log pos
Z50022_at	HSSGP1N15	surface glycoprotein. :chromo	log pos
Z69043_s_at	HSTRAPRNA	mRNA translocon-associated pro	log pos
Z70759_at	HSM243	mitochondrial 16S rRNA gene \ (	log pos
Z80783_at	HSH2BL	H2B/I gene. :H2B histone famil	log pos
Z80787_at	HSH4J	H4/j gene. :H4 histone family,	log pos
Z80787_at	HSH4J	H4/j gene. :H4 histone family,	log pos
Z83804_at	HSHDHC7	axonemal dynein heavy chain	log pos
Z84721_cds2_at	HSGG1	DNA sequence from cosmid GG1 f	log pos
Z84721_cds2_at	HSGG1	DNA sequence from cosmid GG1 f	log pos
Z93784_at	HS398C22	DNA sequence from PAC 398C22 o	log pos

TABLE 10

Urothelium			Other cell types			
Protein	Normal	pTa	pT2+	Leukocytes	Endothelium	Histiocytes
					m	
Keratin 8	+	+	+	-	-	-
CystatinC	+	+	+	+		+
Vimentin	+	-	+		+	
E-cadherin	+	(+)	(+)	?		
CD59	+	(+)	-	+	+	+
					+	
Cathepsin E	-	+	-	+		+
junB	-	+	-	-	-	+
IGF	+	+	-	-	-	-
Beta-2-microglob.	+	+	+	+	+	-
ApoE	+	-	+	-	-	-

**CLAIMS**

1. A method of determining an expression pattern of a cell sample independent of the proportion of submucosal, smooth muscle, or connective tissue cells present, comprising:  
5 determining expression of one or more genes in a sample comprising cells, wherein the one or more genes excludes genes which are expressed in the submucosal, smooth muscle, or connective tissue, whereby a pattern of expression is formed for the sample which is independent of the proportion of submucosal, smooth muscle, or connective tissue cells in the sample.
- 10 2. The method of claim 1 wherein the sample comprises epithelial or carcinoma cells.
3. The method of claim 2 wherein the sample comprises urothelial or bladder cancer cells.
- 15 4. A method of determining an expression pattern of a cell sample, comprising:  
determining expression of one or more genes in a sample comprising cells, whereby a first pattern of expression is formed for the sample;  
removing expression of genes which are expressed in submucosal, smooth muscle, or connective tissue cells from the first pattern of expression,  
20 whereby a second pattern of expression is formed, wherein the second pattern is independent of the proportion of submucosal, smooth muscle, or connective tissue cells in the sample.
5. The method of claim 4 wherein the cell sample is an epithelium or carcinoma sample.
- 25 6. The method of claim 5 wherein the cell sample is a urothelium or bladder cancer sample.
7. A method for determining an expression pattern of a urothelium or bladder cancer cell, comprising:  
determining expression of one or more genes in a sample comprising  
30 urothelium or bladder cancer cells, whereby a first pattern of expression is formed;

subtracting from the first pattern of expression a second pattern of expression, wherein the second pattern was formed using the one or more genes and a sample comprising predominantly submucosal, smooth muscle, or connective tissue cells, said step of subtracting forming a third pattern of expression which reflects expression of the urothelium or bladder cancer cells independent of the proportion of submucosal, smooth muscle, or connective tissue cells present in the sample.

8. A method of detecting an invasive tumor in a patient, comprising:  
detecting in a sample of a body fluid a marker which is more prevalent in submucosal, smooth muscle, or connective tissue than in the body fluid, wherein the marker is an mRNA or protein expression product of a gene, wherein an increased amount of the marker in the body fluid indicates a tumor which has become invasive in the patient.

9. The method of claim 8 wherein the body fluid is selected from the group consisting of blood, plasma, serum, urine, ascites fluid, pleural fluid, spinal fluid, sputum, and mucous secretions.  
10. The method of claim 8 wherein the marker is a protein characteristic of submucosal, smooth muscle, or connective tissue, but not found in the body fluid.

11. A method to diagnose a bladder cancer comprising:  
determining a first pattern of expression of one or more genes in a bladder tissue sample suspected of being neoplastic;  
comparing the first pattern of expression to a second and third reference pattern of expression, wherein the second pattern is of the one or more genes in normal urothelium and the third pattern is of the one or more genes in bladder cancer, wherein a first pattern of expression which is more similar to the third pattern than the second indicates neoplasia of the bladder tissue sample.

12. A method to predict outcome or prescribe treatment of a bladder tumor, comprising:

determining a first pattern of expression of one or more genes in a bladder tumor sample;

5 comparing the first pattern to one or more reference patterns of expression determined for bladder tumors at grades I to IV;

determining which of the reference patterns shares maximum similarity with the first pattern, wherein the outcome or treatment appropriate for the grade of tumor of the reference pattern with the maximum similarity is assigned to the bladder tumor sample.

13. A method to determine grade of a bladder tumor, comprising:

determining a first pattern of expression of one or more genes in a bladder tumor sample;

15 comparing the first pattern to one or more reference patterns of expression determined for bladder tumors at grades I to IV;

determining which of the reference patterns shares maximum similarity with the first pattern, wherein the grade of the reference pattern with the maximum similarity is assigned to the bladder tumor sample.

14. A method to determine stage of a bladder tumor, comprising:

20 determining a first pattern of expression of one or more genes in a bladder tumor sample;

comparing the first pattern to one or more stage-specific reference patterns;

25 determining which of the stage-specific reference patterns shares maximum similarity with the first pattern, wherein the stage of the reference pattern with the maximum similarity is assigned to the bladder tumor sample.

15. The method of claim 14 wherein the pattern of expression of the bladder tumor sample and the reference patterns comprise data on the expression of one or more genes selected from the group consisting of TCC-related genes, bladder papilloma-related genes, and invasive TCC-related genes.

30

16. A method of identifying a tissue sample as urothelial,  
comprising:

determining a first pattern of expression of one or more genes in a  
tissue sample;

5        comparing the first pattern of expression to a second pattern of  
expression obtained from normal urothelial cells; wherein similarity between  
the first and second patterns identifies the tissue sample as urothelial in its  
origin.

17. The method of claim 16 further comprising the step of:  
10        comparing the first pattern to one or more third patterns of expression  
obtained from other cell types, wherein differences between the first  
and third patterns confirms the suggestion that the tissue sample is  
urothelial in origin.

18. A method to identify a set of genes useful for diagnosing,  
15        predicting outcome, or prescribing treatment of a bladder  
cancer comprising:

determining a first pattern of expression of one or more genes in a first  
bladder tissue sample;

20        determining a second pattern of expression of the one or more genes  
in a second bladder tissue sample, wherein the first bladder tissue sample is a  
normal urothelium sample or an earlier stage or lower grade of bladder tumor  
than the second bladder tissue sample;

25        comparing the first pattern of expression to the second pattern of  
expression to identify a first set of genes whose expression is increased or  
decreased in the second bladder tissue sample relative to the first bladder tissue  
sample;

30        removing from the first set of genes those genes which are expressed  
in submucosal, smooth muscle or connective tissue to produce a second set of  
genes, wherein measurement of expression of the second set of genes can be  
used for diagnosing, predicting outcome, or prescribing treatment of a bladder  
cancer.

19. A method of determining an expression pattern of a bladder tissue sample independent of the proportion of submucosal, smooth muscle, or connective tissue cells present, comprising:  
isolating a single-cell suspension of disaggregated bladder tumor cells  
5 from a bladder tissue sample comprising bladder cells, and cells of one or more of a cell type selected from the group consisting of submucosal cells, smooth muscle cells, or connective tissue cells;  
determining expression of one or more genes in the single-cell suspension, whereby a pattern of expression is formed for the sample which is  
10 independent of the proportion of submucosal, smooth muscle, or connective tissue cells in the bladder tissue sample.
20. The method of any of claims 1-19 wherein expression of a gene is determined by assaying for an mRNA transcribed from the gene or a protein translated from an mRNA transcribed from the gene.  
15
21. The method of any of claims 1-19 wherein expression of a plurality of genes is determined.
22. A method of screening for candidate therapeutic agents for treating bladder cancer, comprising the steps of:  
20 contacting bladder tumor cells with a test compound;  
determining gene expression of one or more genes in the bladder tumor cells which have been contacted with the test compound, wherein expression of the one or more genes changes during the development of a bladder cancer;  
identifying a test compound as a candidate therapeutic agent if it causes  
25 gene expression of at least one of the one or more genes to change to a level which is characteristic of an earlier stage of cancer progression.
23. A method of categorizing a tumor, comprising the steps of:  
mixing cells of a plurality of tumors, wherein the tumors are of a single type and of a similar stage or grade to form a pool;  
30 determining expression of one or more genes in the pool;



comparing expression of the one or more genes in the pool to expression in a test sample derived from a tumor, wherein similarities between the test sample expression and the pool expression permit categorization of the tumor.

- 5           24.    A method of categorizing a tumor, comprising the steps of:  
              mixing one or more gene products from cells of a plurality of  
tumors, wherein the tumors are of a single type and of a similar stage or grade  
to form a pool, wherein the gene product is mRNA or protein;  
              determining expression of one or more genes in the pool by  
10       assaying the gene product in the pool;  
              comparing expression of the one or more genes in the pool to  
expression in a test sample derived from a tumor, wherein similarities between  
the test sample expression and the pool expression permit categorization of the  
tumor.
- 15           25.    A method of categorizing a tumor, comprising the steps of:  
              determining expression of one or more genes in a plurality of  
tumors, wherein the tumors are of a single type and of a similar stage or grade;  
              combining data determined for the expression of the one or  
more genes to form a data pool;  
20       comparing expression of the one or more genes in the data pool  
to expression in a test sample derived from a tumor, wherein similarities  
between the test sample expression and the data pool permit categorization of  
the tumor.
- 25           26.    The method of claim 23, 24, or 25 wherein the tumors are  
bladder tumors.

FIG. 1

DISTRIBUTION OF EXPRESSION LEVELS IN BLADDER WALL

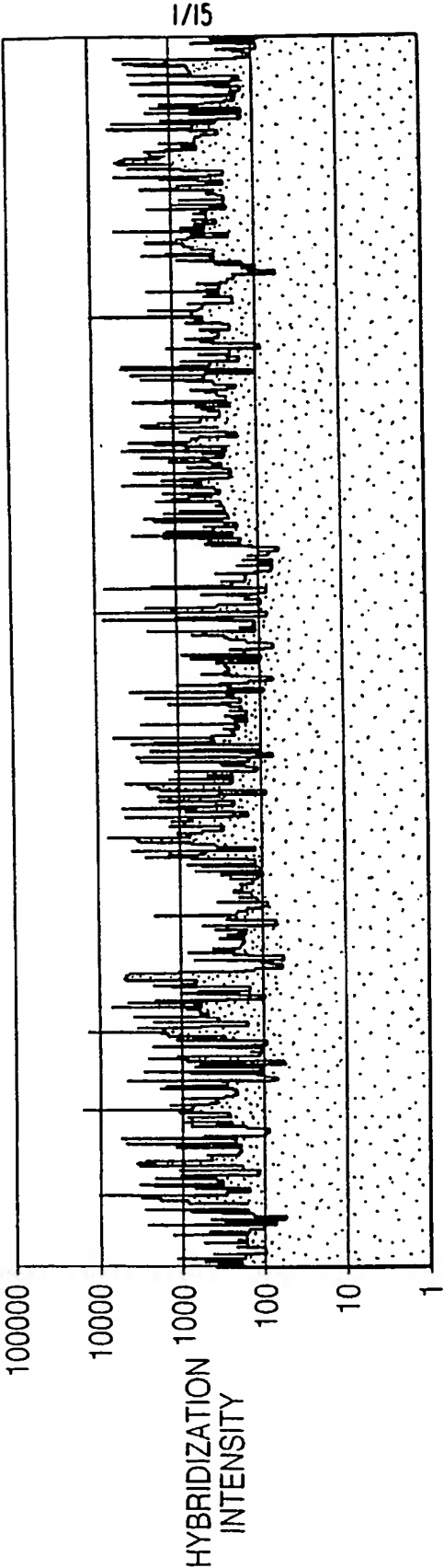
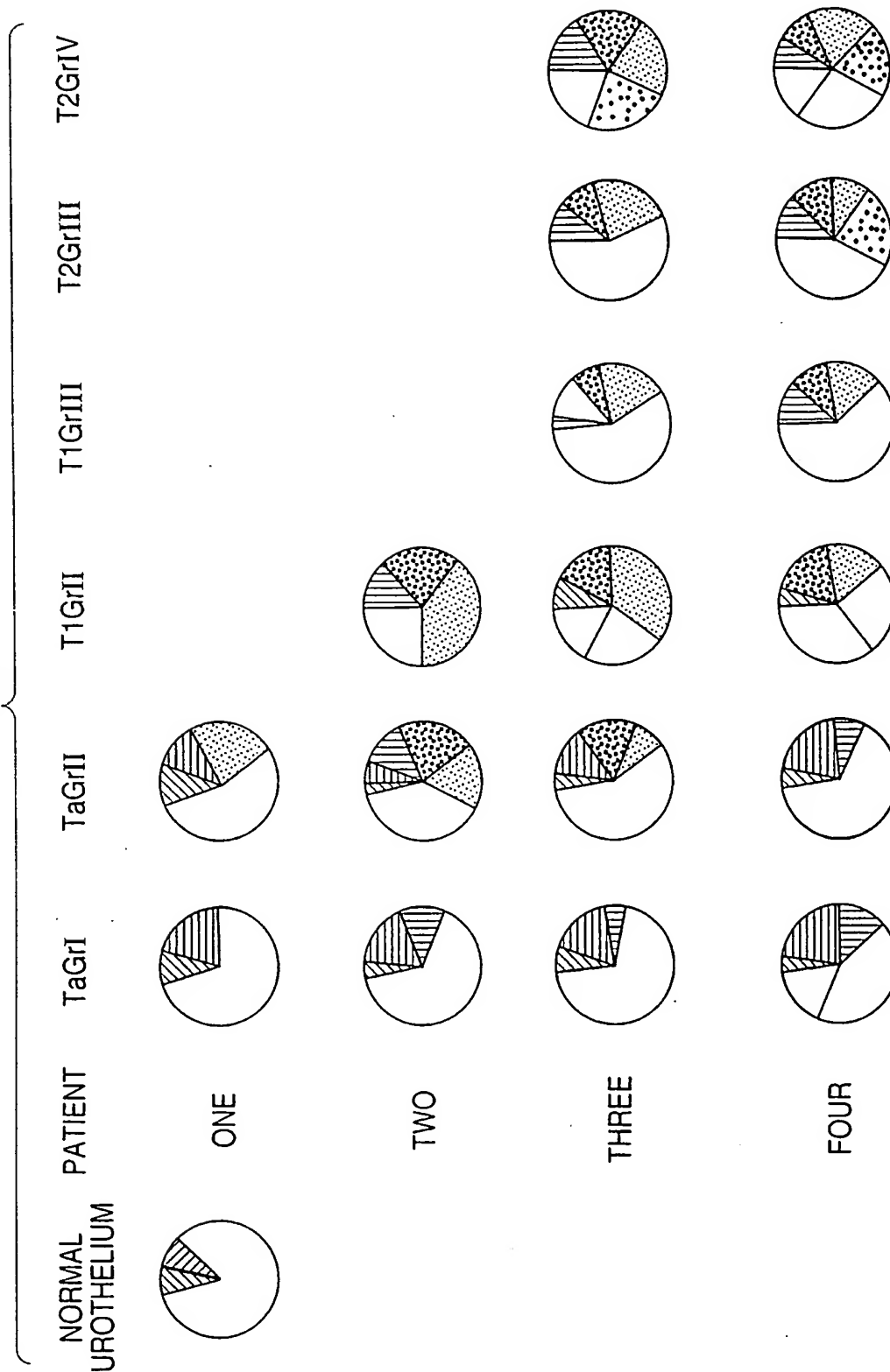


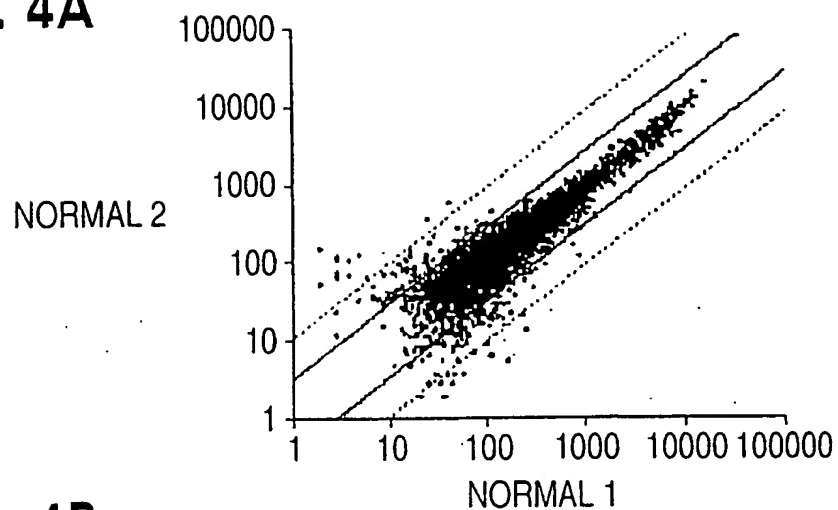
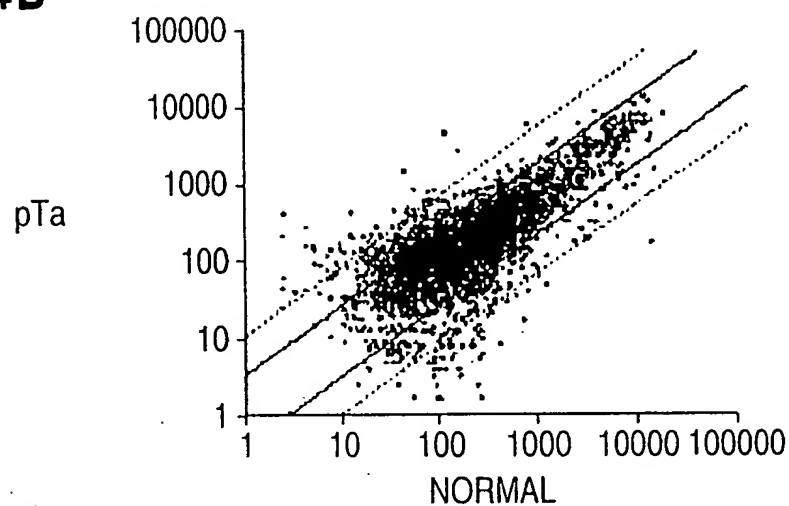
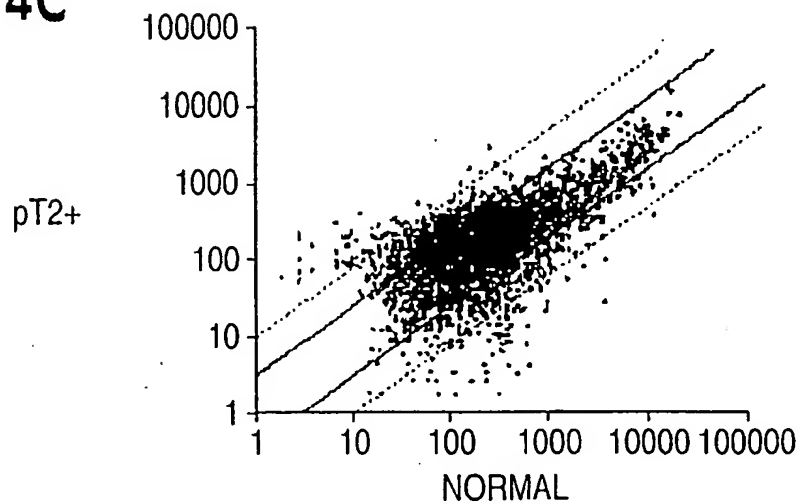
Fig. 2 was missing at the time of publication

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FIG.3



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**FIG. 4A****FIG. 4B****FIG. 4C**

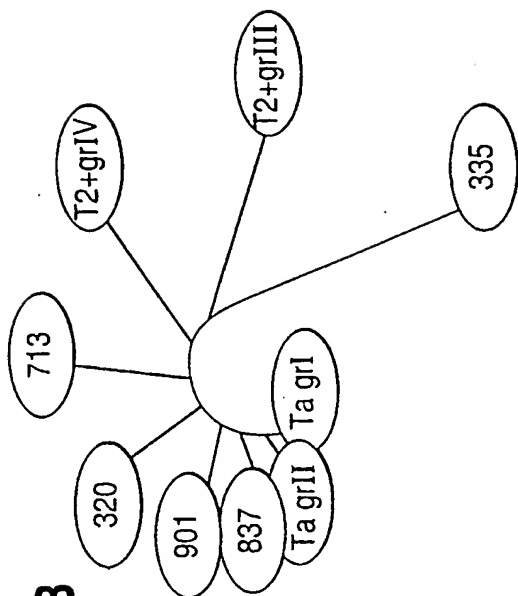


FIG. 5B

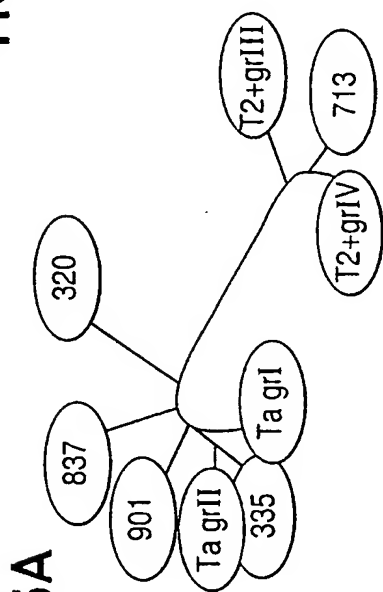


FIG. 5A

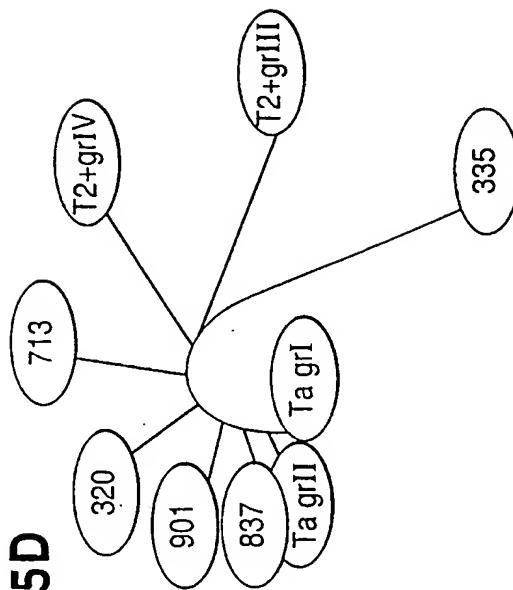


FIG. 5D

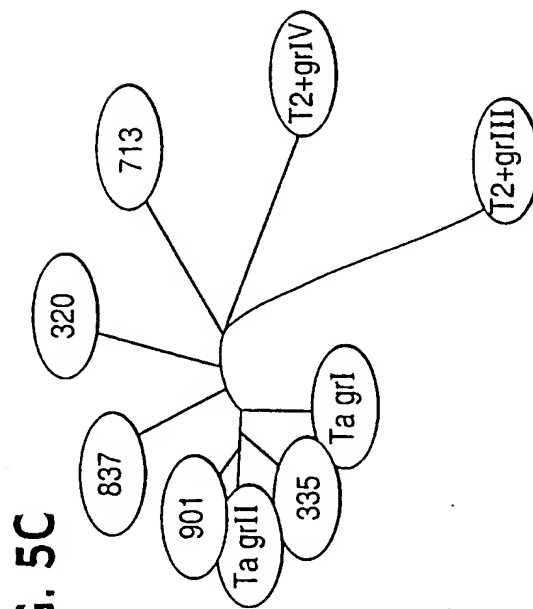
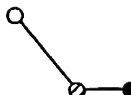


FIG. 5C

FIG. 6A

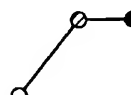
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TCC related genes



A.

M12125	Tropomyosin
D00654	Smooth muscle gamma-Actin
X04470	Antileukoprotease (ALP)
U08021	Nicotinamide N-methyltransferase (NNMT)
M16276	MHC class II HLA-DR2-Dw12
K02765	Complement component C3
J02854	Myosin light chain (MLC-2)
J05582	Pancreatic mucin
D17408	Calponin
M95787	Smooth muscle protein (SM22)
X99133	NGAL gene
M31951	Perforin (PRF1)
HG3431-HT3616	Decorin
S75256	Neutrophil lipocalin (HNL)
X13839	Smooth muscle alpha-Actin
M84526	Adipsin/complement factor D
AF001548	Chromosome 16 BAC clone CIT987SK-815A9

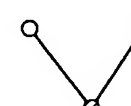
FIG. 6B



B.

M13955	Keratin K7 (type II)
D87953	RTP
HG3543-HT3739	Insulin-Like Growth Factor 2

FIG. 6C



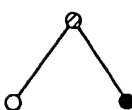
Bladder papilloma related genes

C.

M63438	Ig rearranged gamma chain V-J-C region and complete cds
M25079	Sickle cell beta-globin
Z84721	Human DNA sequence 2Mb contig from cosmid GG1
X00274	HLA-DR alpha heavy chain a class II antigen
X57809	Rearranged immunoglobulin lambda light chain
M34516	Human omega light chain protein 14.1
M13560	Ia-associated invariant gamma-chain gene
L02326	Clone Hu lambda-17
M33600	MHC class II HLA-DR-beta-1 (HLA-DRB1)
HG1428-HT1428	"Globin Beta"
V00594	Metallothionein
X57351	1-8D gene from interferon-inducible gene family
S71043	Ig alpha 2=immunoglobulin A heavy chain allotype 2
M87789	"Human (hybridoma H210) anti-hepatitis A IgG
M12529	Human apolipoprotein E
HG3576-HT3779	MHC Class II Beta W52
M57466	MHC class II HLA-DP light chain
Z19554	Vimentin gene
X03068	HLA-D class II antigen DQw1.1 beta chain
J04164	Interferon-inducible protein 27-Sep
X17042	MRNA for hematopoietic proteoglycan core protein
M55998	Alpha-1 collagen type I

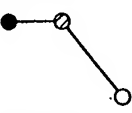
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FIG.6D



J03242	D.
U20734	Insulin-like growth factor II
X64364	Transcription factor junB
L12711	MRNA for M6 antigen
M32053	Transketolase (tk)
M17863	H19 RNA "gene"
X15573	Preproinsulin-like growth factor II (IGF-II)
M22430	Liver-type 1-phosphofructokinase (PFKL)
M84424	RASF-A PLA2
X59798	Cathepsin E (CTSE)
X07696	PRAD1 mRNA for cyclin
M94856	MRNA for cytokeratin 15
	Human fatty acid binding protein homologue (PA-FABP)

FIG.6E

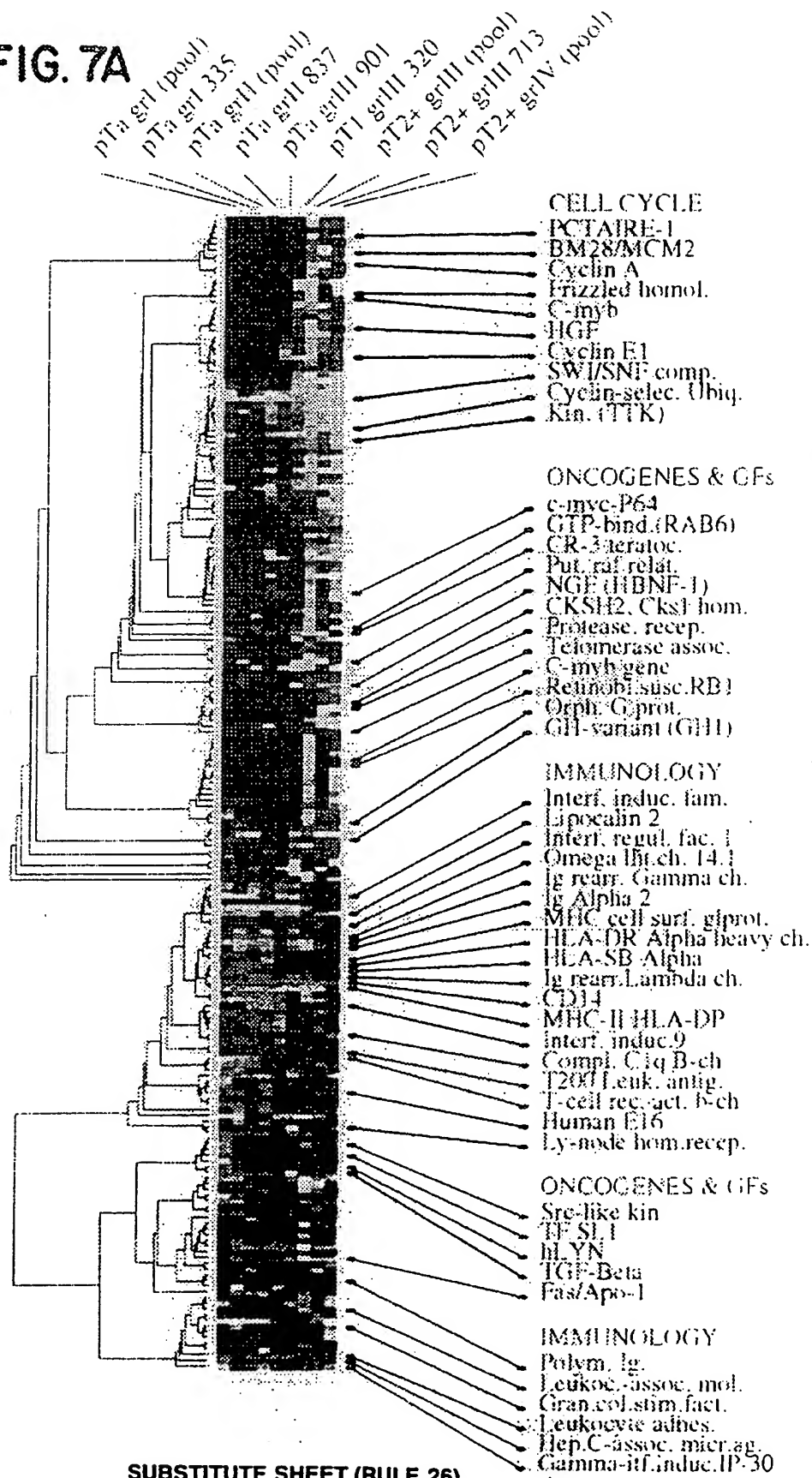


	<u>Invasive TCC related genes</u>
	E.
M62403	Insulin-like growth factor binding protein 4 (IGFBP4)
J04093	Phenol UDP-glucuronosyltransferase (UDPGT)
X12876	DNA seq. From RP3-474112 on chromosome 22q13.1-13.2
L19686	Macrophage migration inhibitory factor
AC002115	DNA from chr. 19 cosmids R31396, F25451, and R31076
M55409	Pancreatic tumor-related protein
U12404	Human Csa-19
Z28407	MRNA for ribosomal protein L8
X93036	MRNA for MAT8 protein
X98482	TNNT2 gene exon 11
X82693	MRNA for E48 antigen
AF000562	Uroplakin II
U16799	Na,K-ATPase beta-1 subunit
X54232	MRNA for heparan sulfate proteoglycan (glypican)
J02874	Adipocyte lipid-binding protein
L76568	S26 from excision and cross link repair protein (ERCC4)
M65292	Human factor H homologue
L33842	Type II inosine monophosphate dehydrogenase (IMPDH2)
U24389	Lysyl oxidase-like protein gene
X76180	MRNA for lung amiloride sensitive Na <sup>+</sup> channel protein
D63475	MRNA for KIAA0109
D16480	Mitochondrial enoyl-CoA hydratase/3-hydroxyacyl-CoA dehydrogenase



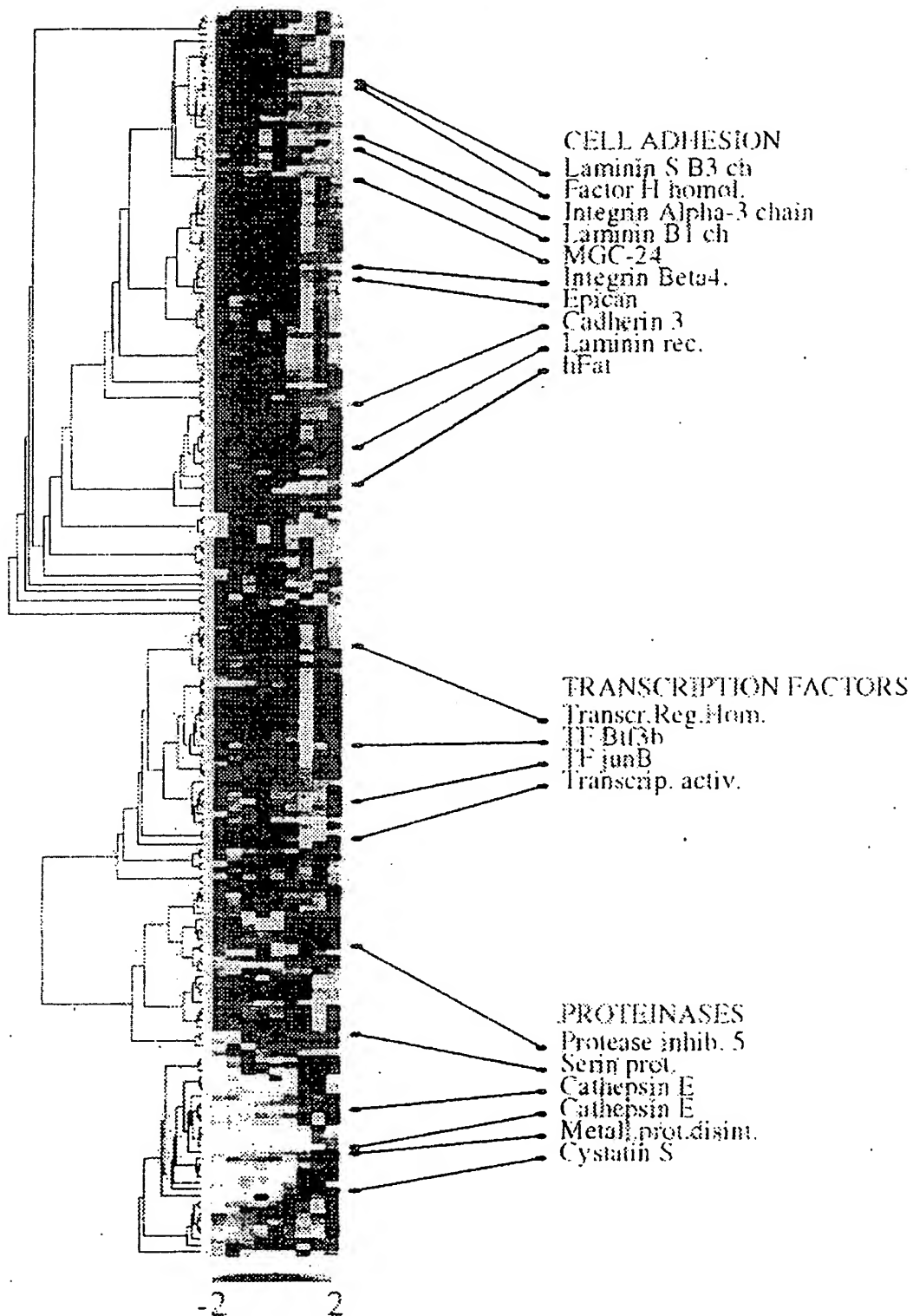
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FIG. 7A



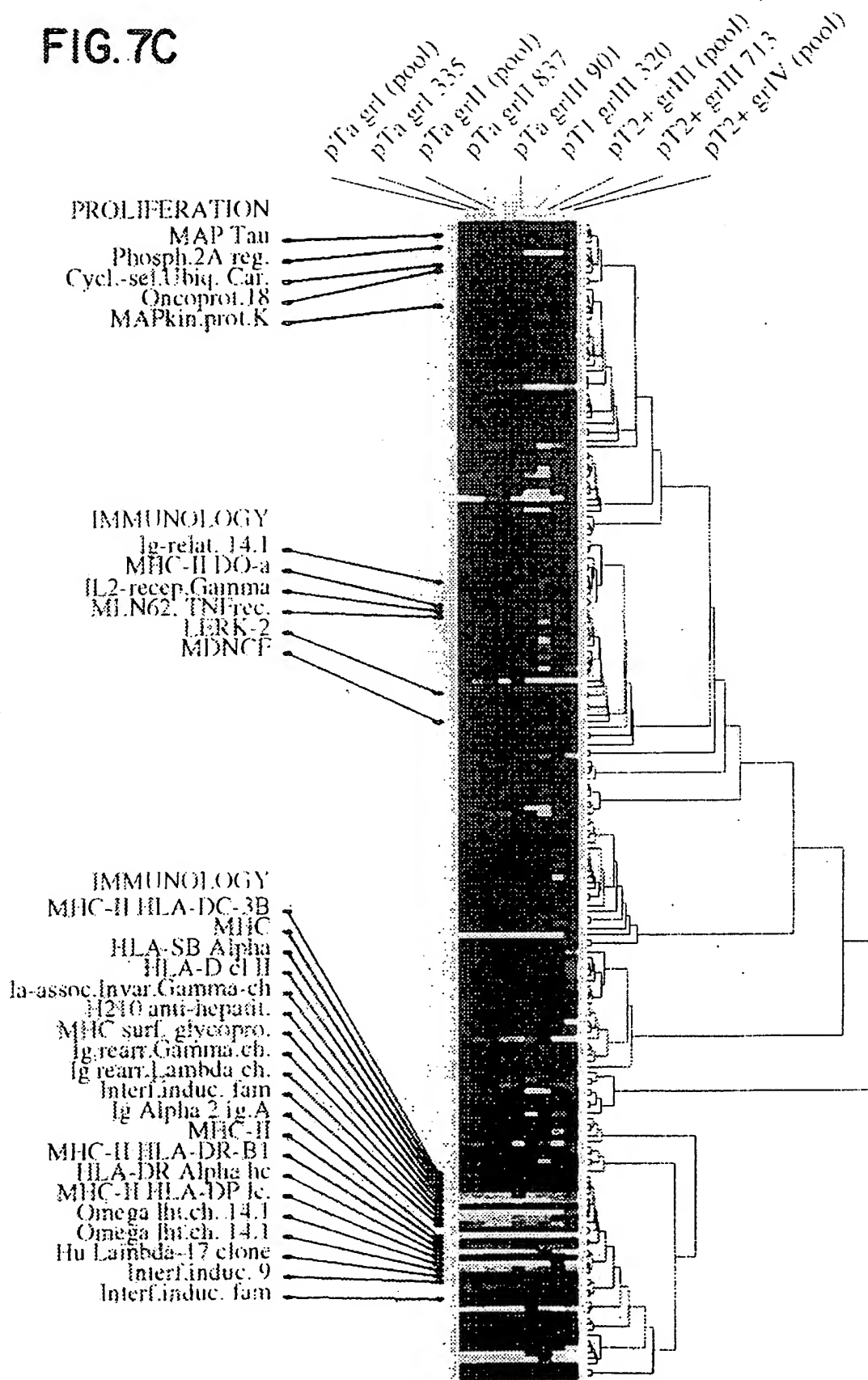
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FIG. 7B



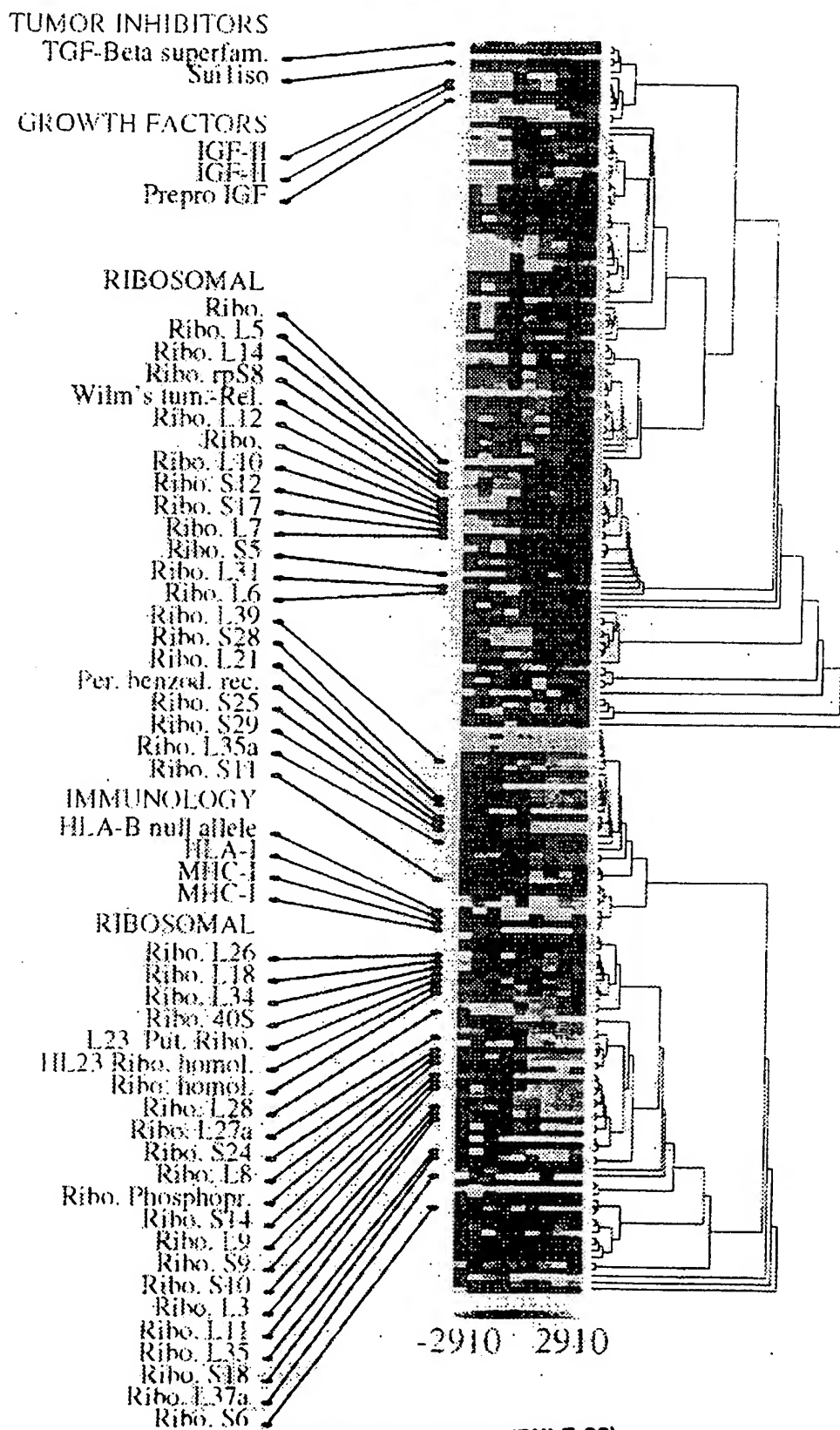
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FIG. 7C



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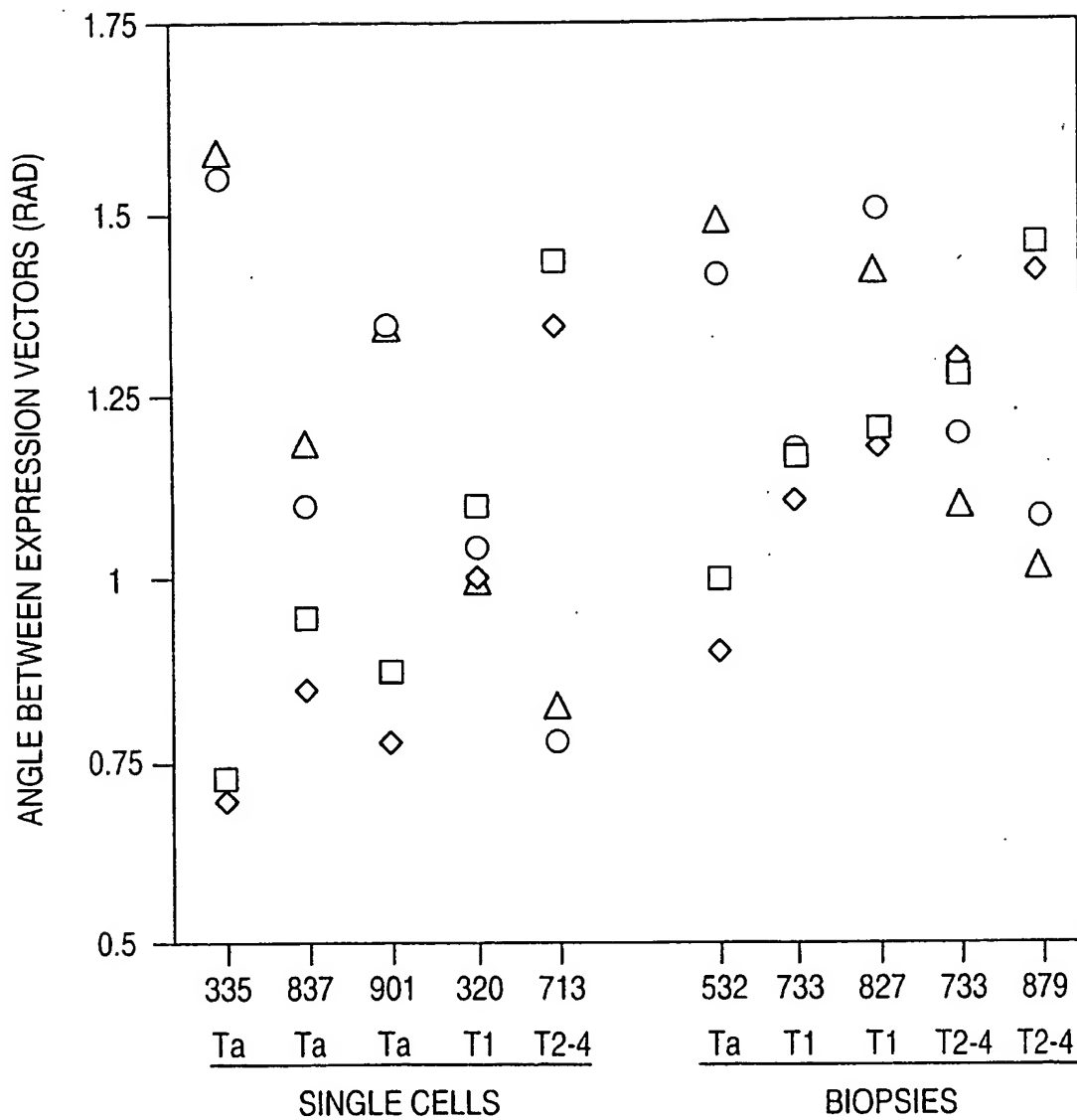
FIG. 7D



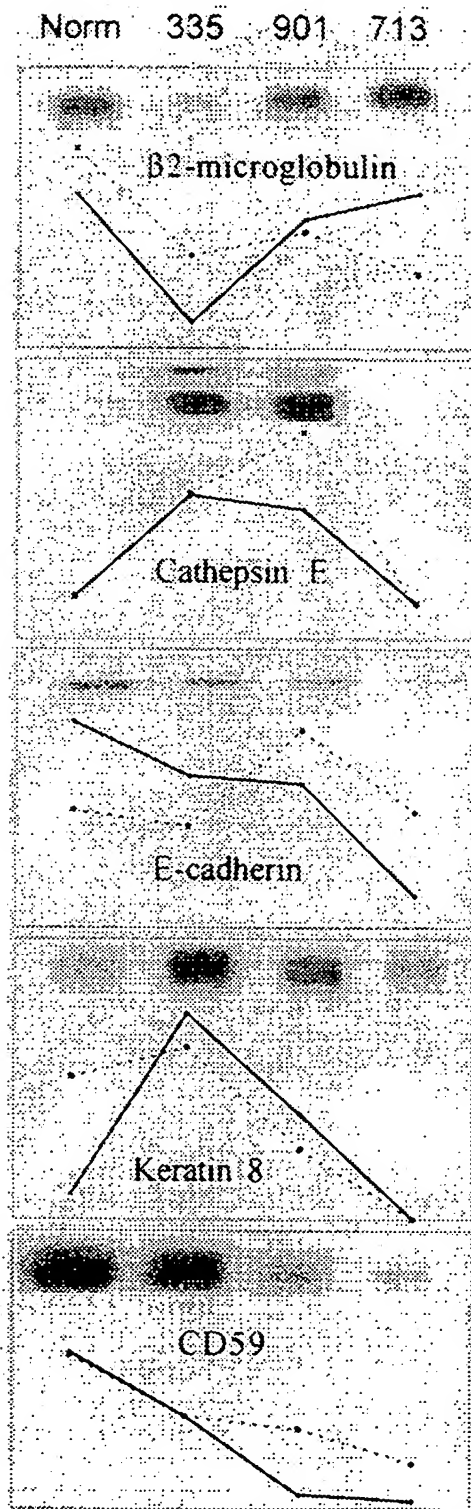
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FIG.8

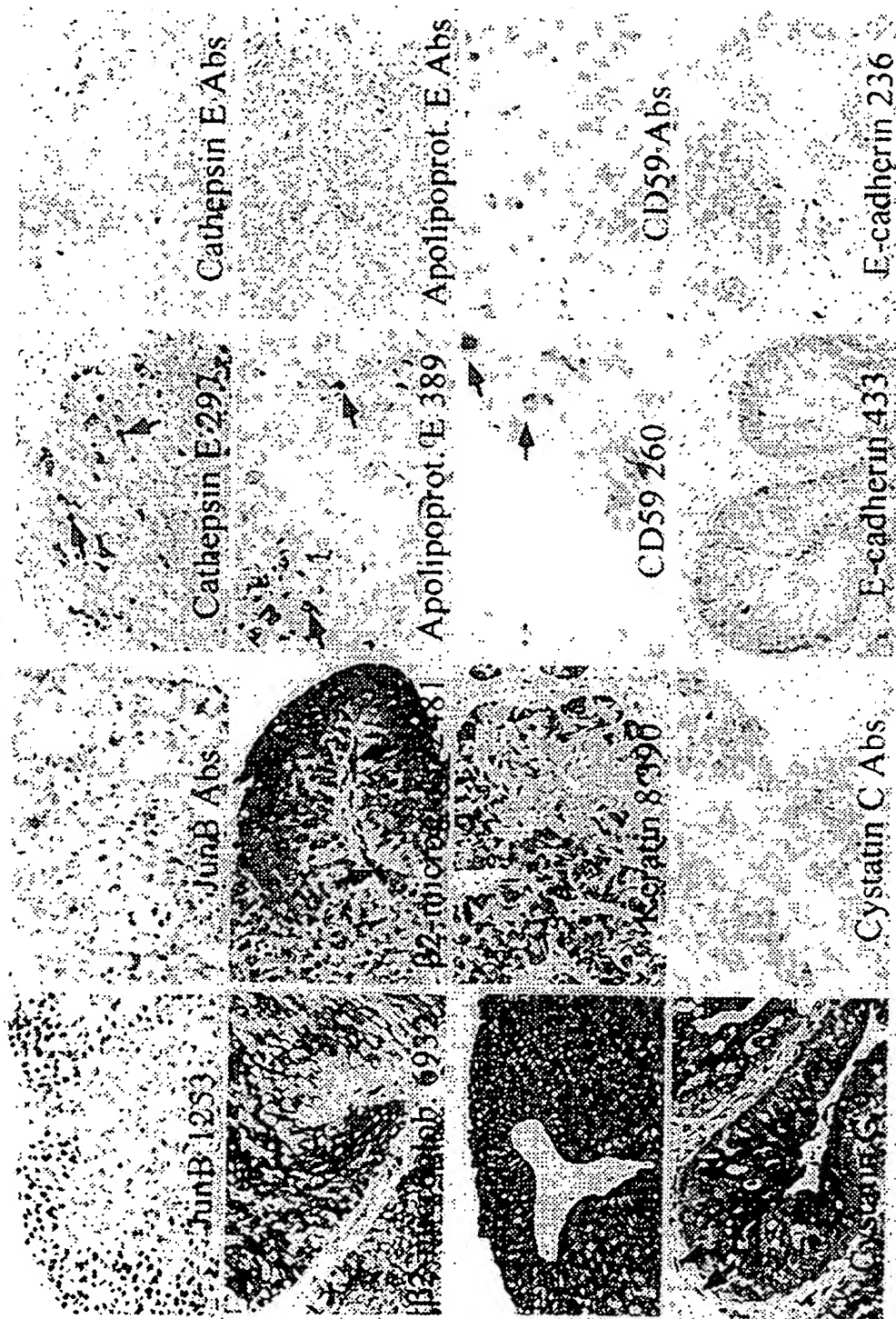


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**FIG. 9**

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FIG. 10



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Fig. 11 was missing at the time of publication